

Nitin G - Senior Architect, Technical Product Manager & Full Stack Engineering Leader

Summary

An experienced professional with 14 years of experience, with a demonstrated history of working in the Information Technology and Services industry skilled in Technical Architecture, Solution Architecture, Product Management, Project Management, People Management.

With proficiency in SaaS based Web and Mobile applications, especially with Cloud Native applications, Serverless Stack, Cloud and DevOps, I have built number of high-quality applications for clients worldwide for various industries like Healthcare, Fin-Tech, Social Media, E-Commerce, Retail, Real Estate, Education and more.

Extensively worked with technologies like Android, Angular, Java, Spring Boot, TypeScript, JavaScript, AWS, Azure, Ionic, React, React Native, Ruby on Rails, Python, Fast API, Django, PHP, Nest.js,

Node.js, SQL, NoSQL, Micro Services, Distributed Systems, Atlassian, Jira, Confluence, Bamboo, Bitbucket, Gitlab, Zapier, HubSpot, Google Analytics, Segment, Nagios, Status Cake, CloudWatch, Sumo Logic, Azure Computer Vision, Accessibility, Monitoring Systems, DevSecOps, High-Level Designs, Wireframes, Prototyping.

Technical Skill

- **Backend:** Nest JS, Node JS, Serverless, AWS, Azure, Ruby on Rails, Golang, PHP, REST, Docker, CI/CD. Python, Fast API, Django
- **Front End Technology:** Angular, Material Design, React.js, D3.js, JavaScript, HTML, CSS.
- **Databases:** MySQL, SQL Server, AWS RDS, Dynamo DB, MongoDB, Firebase, Force.com
- **Mobile Technology:** Android, Ionic, React Native, Flutter
- **AWS:** EC2, S3, DynamoDB, Lambda, RDS, VPC, Route 53, CloudFront, Redshift
- **Microsoft Azure:** Azure Computer Vision
- **Operating System:** Windows, Linux, Mac

- **Data Engineering:** Air byte, Panoply, Stitch Data, Rudder stack, Snowflake, Redshift, Tableau
- **Analytics:** Google Analytics, Segment, Mix panel, Hotjar □ Lead Capture: HubSpot, Lead Squared

Certifications / Achievements:

- Product Management Certificate from Indian School of Business
- Atlassian Certified Jira Project Administrator for Data Center and Server
- Atlassian Certified in Managing Jira Projects for Cloud
- Educative.io- System Design Certified
- Triple byte Certified Android Engineer
- Emerging Leaders Program- Crossover Leadership Journeys

Tools

- IntelliJ IDEA, WebStorm, AWS, GitHub, VS Code, Jira, Confluence, Bitbucket, GitHub, Gitlab, Eclipse, Draw.io, Figma, Miro, Docs, Sheets, Slides, Click up, Notion, Jira Roadmaps, Aha, Pivotal Tracker.

Education

- Master of Computer Applications from NIT Jamshedpur

Projects:

Data Quality Assistant (React, TypeScript, Python, FastAPI, PostgresDB, MS Office Excel API, FluentUI, Strapi):

An Office Excel Add-in and a Dashboard application for Europe based client.

Team Size: 5

Role: Senior Developer

Work Contribution:

- Worked with the team remotely in agile mode following sprints and kanban board.
- Created the Rest APIs using FastAPI for the dashboard to show data on charts and create other APIs as required from time to time.
- Worked on the frontend side using react with typescript and following best in class coding styles.
- Used Redux for state management and used RTK queries for API calls.
- Wrote complex logics for analysing a lot of data on excel sheet.
- Worked closely with the CTO and defines best approaches and developed some of the modules from scratch.

Ride Booking app (Java with Spring Boot, NestJS, Python with Fast API):

Developed the multiple backend micro-services dependent on each other for the Ride Booking App like renowned brand in the market known as "Uber".

Team Size: 8

Role: Lead Architect and Full Stack developer responsible for designing and implementing the below mentioned functionalities.

Work Contribution:

- Ride Booking: Service implemented in Python with optimized database and schema modelling contains the APIs for ride booking related logic.
- Auth Service: Service implemented in NestJS using passport OAuth2.0 strategy for authentication/authorization which handles the proper management of users from registering to login and different types of social logins with Two-Step verification.
- Notification Service: Implemented in NestJS to handle all types of PUSH, SMS and EMAIL notifications.
- Payment Service: Implemented using Java with SpringBoot to handle the driver's and rider's payments with stripe payment gateway. Manage the complete Stripe developer's portal for the smooth payments.
- WebSocket Service: Service implemented using Python, which is handling the real time updates for the ride between riders and drivers.
- Cars Service: Service implemented in Python which is managing cars and drivers' availability and their documentations with updated driver's location data and the current ride location and history.

- S3 Service: Implemented in Java to manage the driver's/rider's and other documentations data on the AWS S3 bucket.
- Promotions Service: Implemented in Python, managing the promotions, discounts and referrals to be provided to the rider.

Lead Capturing Web Application (Svelte, NestJS, TypeScript, Python, Django, Laravel, ECS, Load Balancer, RDS Postgres, S3, CloudFront, Strapi, KeyCloak, GitHub Actions, MicroServices):

Lead capturing and nurturing web applications for customers and Admins for Singapore based client.

Team Size: 6

Role: Senior Architect, Project Manager, Tech Lead and Developer

Work Contribution:

- Understood the client requirements and created user flow diagram for client confirmation.
- Created the solution and technical architecture for whole app.
- Defined the tasks breakdown and provided the project plan based on the phases.
- Architected the Microservice based architecture as there are multiple services involved.
- Designed the Schema and got it reviewed from client.
- Created the API documentation.
- Leading the project and team.
- Developed some of components in the app such as User Service in NestJS and Calculator Service in Laravel.
- Developed some APIs in Django for customer service.

Migration Project (Node.js, TypeScript, Golang, Lambda, RDS Postgres, ECS, CloudWatch, Event Bridge):

A Golang to NodeJS Migration project for American Football Betting application for US based client

Team Size: 2

Role: Senior Architect and Developer Work Contribution:

- Understood the client requirements and created the plan for migration from Golang to NodeJS.
- Created the project structure for NodeJS app to run the services independently.
- Migrated all the files from Golang to NodeJS using typescript one by one.
- Implemented Event Listeners to replaces Golang routines.
- Tested the service to work like Golang service.
- Ran the NodeJS service along with other services for data interaction.
- Implemented gRPC on NodeJS and implemented Postgres communication using Sequelise and setup the Redis communication.
- Deployed the app on ECS and ran it in parallel to other services on production environment and tested the logs and fixed the issues found.

SaaS Application for AR/VR(React, Node.js, Serverless, Lambda, RDS MySQL, S3, CloudFront, AWS CI/CD):

A SaaS application for US based client.

Team Size: 4

Role: Senior Architect and Product Owner

Work Contribution:

- Understood the client requirements and created user flow diagram for client confirmation.
- Created the solution and technical architecture for SaaS app.
- Defined the tasks breakdown and provided the project plan based on the phases.
- Architected the React and Node.js app.
- Designed the Schema and got it reviewed from client.
- Created the API documentation.
- Setup the CI/CD for frontend and backend deployment

Codefactori Migration (Digital Ocean to AWS):

A hosted and managed software development solution centered around your Atlassian tools.

Team Size: 4

Role: Senior Architect and Product Manager

Work Contribution:

- Created the project plan for migration from Digital Ocean to AWS.
- Created the architecture to provision and set up the applications on AWS using Automation written using Ansible and behind the scene CloudFormation templates.
- Created the Architecture for the application to run the automation from a Node.js server through child processes on demand via a React client app.
- Created the Architecture for the application to be developed as an executable that can be run from any operating system using Electron js.
- Created the Architecture for the setup of the application on AWS using EC2, RDS Postgres, RDS MS SQL Server, Auto Scaling Groups, VPC, S3, AWS VPN, CloudWatch.

Excellentable Newton (Java, Spring Boot, JavaScript, Linux):

Collaborative editing (CES) for Excellentable spreadsheet tool available in the Atlassian marketplace. With increasing concerns about data residency, privacy, and legal requirements, we created the option to host this service internally behind the firewall.

Team Size: 5

Role: Senior Architect and Product Manager

Work Contribution:

- Architected the solution to develop a Spring Boot Server using Stomp for socket connections.
- Architected the packaging of the Java app to be released as Debian and RPM Linux distribution packages.
- Created the project plan, led the execution, and delivery.
- Created the robust plan for testing it in simulated environment behind the firewall with different operating systems supporting the Debian and RPM package.

Backup and Restore Solution (Golang, Java, Spring Boot, Node, JavaScript):

The idea was to develop a backup and restore solution such that it can back up the Atlassian apps, their attachments and databases and help in easy migration via restoring process.

Team Size: 4

Role: Senior Architect and Product Manager

Work Contribution:

- Architected the solution to develop a Golang service to listen to file changes on the disk and upload the files on AWS S3 after authentication via a node service and uploading service written in Java.
- Created the project plan and high-level designs and led the execution.

E Signable (Java, Spring, JavaScript, Atlassian SDK):

With the rise of agile adoption and efficient ITSM process, these days almost all organizations in almost all domains follow a defined workflow for approvals and reviews on different requests across different departments and have to comply with certain standards and rules for recording the signature, history logs, and audit logs. Some examples of such workflows are Inventory Request Approval Workflows, Leave Approval Workflows, Software Releases Workflows, Employee Performance Review Workflow, HealthCare Processes Workflows, HR Processes Workflows, Finance Processes Workflows.

Team Size: 3

Role: Senior Architect, Product Manager & Tech Lead

Work Contribution:

- Requirement gathering with the client.
- Create the UI flow, mock-ups and prototypes.
- Created the project plan and divided into milestones.
- Architecting the application from scratch.
- Led the team technically and help them wherever they got stuck.

Excellentable for Confluence (Node, React, AWS, Firebase DB, Dynamo DB):

A spreadsheet app for Confluence that allows you to create, edit & share dynamic and interactive spreadsheets.

Team Size: 6

Role: Product Manager & Architect

Work Contribution:

- Architecting the application and Infrastructure on AWS □ Created the roadmap for the product.

- Led the Agile process for development and QA team.
- Code reviews for the dev team.
- Managing and guiding the team.
- Creating CI/CD pipeline for automatic deployment using Bamboo.
- Sonar setup for automated code reviews.

Unstoppable Image Captioning (Java, Spring and JavaScript, Azure Computer Vision):

Accessibility for Jira and confluence. Unstoppable allows you to be 508, and a11y compliant with WCAG 2.1 standards. NVDA & JAWS compatible. It allows to caption the images that have objects and texts and adds the ability for the screen readers to read it for blind users.

Team Size: 3

Role: Senior Architect, Product Manager and Lead Developer

Work Contribution:

- Created the architecture, mock-ups, wireframes and UI flow for this feature.
- Developed the APIs in Java using Azure Computer Vision APIs and implemented the caching of results to save the API calls to Azure.
- Released the feature and promoted it by working with marketing team.

Builder Products (Angular, Ruby on Rails, Node.js, React, AWS, Zoho CRM, Segment, Mix panel):

The Builder Studio is a group of web portals with rich UI and integrations with multiple services.

Team Size: 20

Role: Engineering Lead, Technical PM and Senior developer

Work Contribution:

- Worked as a founding developer on Angular and RoR.
- Developed multiple web portals in span of 3 years for supporting the customer facing portal.
- Architected all the portals, their interaction, and data syncing.
- Added user analytics for tracking the user behaviour.

- Integrated multiple lead capturing solutions such as HubSpot.
- Implemented customised A/B/C testing.
- Implemented CI/CD for frontend and backend app and deployed the Angular application on S3 using CloudFront and backend app on EC2 with Postgres Db and Load Balancers.
- Implemented Agile from scratch in the team.
- Implemented sonar for code reviews, hosted code documentation on S3 and CDN and authenticated using AWS Lambda.
- Implemented Angular Universal for SEO friendly customer facing app.
- Implemented Angular Service workers for Progressive Web Apps.
- Architected the app to become SaaS based. Led the schema design and migration for this.
 - Integrated Zoom API, Google Calendar, Calendly APIs for real time slot booking feature,
 - Architected a prototyping tool for creating prototypes using Leader line and advanced JS.
- Developed a rule based Chatbot for Builder Studio.
- Implemented Socket IO for real time communication.
- Designed multiple solutions to solve various problems.
- Developed the fully customised recurring payment and subscription payment model from scratch.

Builder Data Engineering (Panoply, Air byte, Stitch Data, Rudder Stack, Segment, Snowflake, Redshift, Tableau, AWS RDS):

Setup the data pipelines for collecting all the data from various Builder application into a warehouse for data science team to build recommendations over it.

Team Size: 2

Role: Engineering Lead and Individual Contributor

Work Contribution:

- Deployed Panoply and Air byte opensource on AWS and developed POC on the data pipelines.
- Setup the connections from AWS RDS databases, Segment to RedShift.
- Setup the Tableau online with connection to RedShift and created views for faster data presentation.
- Wrote multiple complex queries for bringing the correct data into views.
- Did a POC with Rudder stack.
- Moved to Stitch data and Snowflake as final cost-effective solution.

Drop it (Android, Java):

Drop it is a radical new auction site where the prices go down instead of up. Download the App or play online to buy epic premium items for less.

Win amazing prizes just for showing up and enjoy spending your Bonus Bucks on real premium items once a month.

Team Size: 2

Role: Senior Developer

Work Contribution:

- Developed the app from scratch end to end.
- Implemented payment gateway and real time auctions.

Style Stamp (Android, Java):

The Style Stamp is an online platform that enables you to discover, flaunt and shop amazing fashion and style, curated by our own global community. We bring to you style inspiration from real people and celebrities alike to up your fashion game. We also keep you updated on all fashion events happening in your city- from exhibits and previews to runway shows, our fashion calendar has it all covered!

Team Size: 2

Role: Senior Developer

Work Contribution:

- Developed the app from scratch end to end.
- Implemented Fastlane for automate deployments.
- Implemented Crashlytics for QA releases.
- Wrote multiple custom Instagram like image filter using open-source APIs.

Magicbricks (Android, Java):

Magicbricks provides a platform for property buyers & sellers to locate properties of interest and source info on real estate.

Team Size: 5

Role: Senior Developer

Work Contribution:

- Developed the app as a major contributor.
- Developed the Project Detail and Agent Detail page.
- Developed the customised hero page.
- Developed multiple animations and complex screens.

Worth by Magicbricks – AI-Powered Property Valuation App:

Worth by Magicbricks - an intelligent app to estimate the value of any property, anytime, anywhere! Buyers, sellers & agents can compute the current market price of any home using this app.

Team Size: 2

Role: Senior Developer Home

Work Contribution:

- Developed the app as a major contributor.

Smart Kiosk Solution (Android, Java, Struts, Google Maps):

This project is a client server-based application where Client is a tablet based android application on which the product offerings can be shown in form of audio video and pdf and auto slideshow keeps running all the times and latest offers are shown in tickers moving on the tablet which is placed on kiosk stand. The content is pushed from server and updated automatically. Tickers are also pushed from server and changed in real times once changed on server.

Team Size: 2

Role: Developer

Work Contribution:

- Developed the app as a major contributor on Android and Java.

E Brochure (Android, Java, Struts, MSSQL Server, Postgres):

It is an application for businesses to help their sales executives to show the brochures, presentations of the product to their customers in digital form instead of paper. It not only helps in increasing efficiency of sales executives but also reduce their burden of papers. Client side is an android application while server side is an J2EE based web application with database support for POSTGRES and MSSQLSERVER 2012 both.

Team Size: 2

Role: Developer

Work Contribution:

- Developed the app as a major contributor on Android and Java.

IPD (Android, Java, Spring, Postgres):

This application is for hospitals and medical institutions. Client-Server based app. On this application. I am a part of mobile and server-side development using Android, J2EE, Struts, JSP, JavaScript and MySQL.

Team Size: 6

Role: Developer

Work Contribution:

- Developed the app as a major contributor on Android and Java.

Swachh Bharat (Android, Java, Struts, Postgres):

This project was for showcasing the company's interest in Indian PM's Clean India Campaign. I worked on the POC for this project. It is a client server application where client consist two android applications, one for public, other for municipals. On server the images and location details of the dirty places sent by public user application are saved and data analysis is done for municipal head. Municipal employees are sent push whenever a dirty image is uploaded. And public users are sent push whenever the place is cleaned. Social media is also integrated. On server all the dirty and clean places are shown on map view and data is filtered based on area and zones.

Team Size: 2

Role: Developer Work Contribution:

- Developed the app as a major contributor on Android and Java.