

# Jonathan Klein

## FullStack Engineer / Senior Developer

I approach engineering with the belief that code is only valuable when it improves lives. Whether it's connecting people to services, supporting scientists with better tools, or helping governments serve citizens, my work has always been about turning abstract requirements into concrete, human-focused solutions. To me, good engineering is empathy, translated into systems.

### SKILLS

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|------------------------|--|
| Languages              | JavaScript, TypeScript, PHP, Python, Java, C++, C, HTML5, CSS3, ECMAScript 6+                                      |
| Frameworks & Libraries | React, Next.js, Vue.js, Nuxt.js, Angular, Node.js, Express, NestJS, Spring Boot, .NET, FastAPI, Django             |
| Cloud & DevOps         | AWS(Lambda, S3, SQS, SNS, EC2, RDS, CloudWatch), GCP(Cloud Run, Firebase, BigQuery, Cloud Monitoring, AI Platform) |
| Testing & QA           | Mocha, Chai, Jest, Jasmine, Cypress, Postman, Swagger, Unit & Integration Testing                                  |
| Others                 | Git, GitHub, GitLab, Jira, Confluence, Trello, Asana, Azure DevOps, Agile Scrum, Kanban                            |

### TECHNICAL EXPERIENCE

#### Senior Software Engineer

Apr 2021 — Sep 2025

TaskRabbit

San Francisco, CA

- Contributed to TaskRabbit's tech platform, powering an online marketplace that connects users with independent Taskers for home services such as furniture assembly, TV mounting, moving, cleaning, outdoor repairs, and more.
- Developed backend APIs, integrating payment flows, tasker rating systems, and job matching logic in collaboration with platform product teams.
- Collaborated with the front-end team using Angular 16 to build dynamic dashboards and internal admin tools integrated with Restful APIs.
- Designed and managed MySQL and NoSQL solution schemas to store service requests, client-tasker communications, and bookings—ensuring data integrity and scalability across multiple regions.
- Engineered polyglot persistence using PostgreSQL for payments/bookings and MongoDB for logs and real-time chats, optimizing both reliability and flexibility.
- Node.js, Express.js, TypeScript, PostgreSQL, MongoDB, Redis, GraphQL, REST APIs, Docker, Kubernetes, AWS (ECS, Lambda, S3, CloudFormation, RDS, CloudWatch), CI/CD (Jenkins, GitHub Actions), LLM (OpenAI API, LangChain), Microservices, Event-driven architecture, Redis Pub/Sub

#### Software Engineer

Dec 2018 — Mar 2021

Senti Biosciences

San Francisco, CA

- Designed and developed the frontend of a biosciences tooling platform with ReactJS and MaterialUI. Developed an interactive, SEO-friendly interface that improved user engagement by 30% using modern UI/UX design principles.
- Created custom React hooks to share reusable component logics for functional components. Constructed optimized database schemas and queries, improving data retrieval speed by 30
- Used React-Vis to create dynamic and customizable graphs/charts to facilitate data analysis for the users.
- Technologies: Node.js, React.js, TypeScript, PostgreSQL, MongoDB, GraphQL, Material-UI, Storybook, Jest, Cypress, Webpack, REST APIs, Python (Pandas, NumPy), CI/CD pipelines, Git

#### Independent Web Developer

May 2015 — Nov 2018

Indie Dev

San Francisco Bay Area, CA

- Worked with businesses and professional artists to develop web applications and business websites..
- Architected various fullstack web projects following MVC (Model-View-Controller) patterns.
- Migrated small business websites from static HTML to Angular 4+ for improved interactivity and maintainability.
- Developed custom and fully functional web applications to demo for potential customers.
- Implemented interactive features using CSS3 and JS without dropping client-side performance.
- Maintained compatibility in browser and operating system level by implementing Javascript polyfills.
- Technologies: Node.js, Express.js, React.js, Vue 3, Next.js, Nuxt.js, PostgreSQL, AWS (EC2, RDS, S3), Heroku, Tailwind CSS, Bootstrap, Webpack, Babel, REST APIs, Nginx, Docker, Git

#### Software Engineer

Apr 2014 — Mar 2015

Autoridad Nacional para la Innovación Gubernamental

Panama, Panama

- Constructed transportation lookup system for motorists view their tickets using JavaScript, HTML5 and CSS3.
- Architected test database using MongoDB to handle storage of 2+ million driver records of Panama citizens.
- Maintained 100% uptime of test database to ensure data integrity of web app in pre-production environment.
- Designed mobile responsive UI/UX for appointment creation utilizing HTML5, Bootstrap and custom CSS3. Maintained 100% uptime of test database to ensure data integrity of web app in pre-production environment.
- Modeled drivers and tickets in MongoDB collections referenced by ID on Node.js and Express RESTful API.

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- Followed scrum agile development on a team of 4 engineers with daily standups and Git for version control.
- *Technologies: Node.js, Express.js, PostgreSQL, MongoDB, REST APIs, Bootstrap, HTML5, CSS3, JavaScript (ES6+), Nginx, Git, Agile/Scrum, Testing with Mocha/Chai*

## EDUCATION

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**Bachelor in Computer Engineering**, *Universidad Tecnológica de Panamá*  
*Graduated with honor with a GPA of 2.53 of 3.0 in College*

Mar 2015

## ACTIVITIES

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**Capítulo de Honor Sigma Lambda**  
*Issued by Technological University of Panama*

Oct 2015

**IFARHU Scholarship**  
*Government scholarship given to the top 3 students graduated from Instituto Episcopal San Cristobal (Highschool)*

Dec 2010