

MENG-YI (MARCUS) HSU

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FULL-STACK MOBILE & WEB APP DEVELOPER

#JavaScript #Node.js #React Native #React.js #Redux #MS SQL Server #MongoDB #Docker

Senior full-stack mobile and web app developer with 10+ years of industrial experience in front-end UI design and development, as well as back-end API development for well-known tech companies. In addition, I have 6 years of experience helping clients design and build budget-friendly, high-quality mobile apps using React Native; I have successfully helped 24 clients launched their iOS & Android apps on App Store and Play Store.

Top-Notch Programming Skills:

- JavaScript (ES 2019)
- Node.js
- Cassandra
- Nginx / Consul
- React Native / Redux
- Express.js / Restify.js
- PostgreSQL
- Docker / Kubernetes
- React.js / Storybook
- MongoDB / Couchbase
- AWS
- Jest / Mocha / Jasmine
- Webpack v4 / Babel v7
- MS SQL Server
- Sass / CSS
- Linux / Unix / Windows

PROFESSIONAL EXPERIENCE

Senior Software Engineer, ADP Innovation Lab, New York, NY

11/2015 – Present

- Developing and architecting ultra-secure authentication and authorization web & mobile platform using React, React Native, Node.js; planning to replace all web & mobile applications currently available in 140 countries.
- Strictly adhering the highest security standard in the world (ADP ranked #1 in Security 500).
- Research and development on experimenting new open-source tech stacks or tools for continuous enhancement.

Full-Stack Web Developer, Acupay System LLC, New York, NY

10/2014 – 11/2015

Project related competencies

Notable Projects

- Solely responsible for a monthly value of USD \$500,000 Global-Asset-Management-Services website from scratch to product launch. Applied tech stack includes AngularJS, Node.js (Express.js/Jade), MS SQL Server, Grunt, Two Factor Authentication, Jason Web Token.
- Solely responsible for a monthly value of USD \$ 100,000 European-Tax-Processing-Services website from scratch to production. Applied tech stack includes Angular, Node.js (hapi.js/Handlebar.js), MS SQL Server.
- Building a centralized mail processing server to manage all internal mailing services in HTTPS format and provide an admin dashboard with real-time mailing status update and stats chart. The features include the tracking of all the mailing records from 5 different servers and the statistic display in animated charts. Applied tech stack includes React.js with Flux data flow, WebSocket, D3.js, Grunt.

Core competencies

Relational Databases

- Designing and administrating Database Management System with Clusterd/Nonclusterd Index and custom SQL constraints with User-Defined Function, and developing Store Procedure using T-SQL, with MS SQL Server.
- Implementing CRUD database operation in Node.js using Sequelize Object-Relational Mapping.

Architecture

- Ensuring adherence to product development and testing life cycle using Git-Flow.
- Automating all-staged application developing, testing, building, deploying process using Grunt/Gulp, Jenkins CI.
- Using scalable MVC architectural pattern in front-end and back-end development individually.

Quality Assurance

- Conducting unit testing for each project's modules using Jest, Mocha, and Jasmine/Karma for 100% test coverage.

- Following Object-Oriented development for both back-end and front-end; staying on top of web programming best practice and emerging design patterns.

Internal Operations

- Upgrading and maintaining 3 financial client's websites, which have been developing over 8 years. Applied programming languages include ASP.NET, MS SQL Server.

Teaching Assistant, Columbia University, New York, NY

08/2014 – 12/2015

- Assisting professor with the supervision of 20+ students for their Big Data programming projects using Hadoop2, Pig, Mahout, GraphDB, Hive, HBase, and Oozie.
- Offering TA hours to guide/debug all course related material/homework/projects over 100 students every week.
- Hosting TA sessions for live demo to demonstrate how to build/run/develop Pig, Hive, HBase, Oozie, Mahout, GraphDB in Hadoop2 ecosystem and how to apply to real-world problem.

ACADEMIC PROJECTS

- **Android App with Big Data Analysis back-end** (Columbia University) **01/2014 – 04/2014**
Building an Android app for finding trending topics in real-time as well as a Big Data analysis back-end API using Java, Python/Flask/NLTK, Pig, Mahout, and MongoDB.
- **Cloud Computing - Amazon Web Services/Google App Engine** (Columbia University) **01/2014 – 12/2014**
Integrating AWS (S3, DynamoDB, RDS, SNS, CloudFront, Elastic Transcoder) into a legacy web app using JSP; Developing an administrative management web platforms with Google App Engine using Python/Jinja2.
- **iOS Mobile Native App Development** (Columbia University) **09/2013 – 10/2014**
Building an iPhone app for finding nearby restaurants and stores using CoreData, Google Map Framework.

EDUCATION

Columbia University in the City of New York, NY

09/2013 – 12/2014

M.S. in Electrical Engineering (concentrate on Computer Science field)

GPA: 3.10/4.00

National Taiwan University, Taipei, Taiwan

09/2009 – 06/2012

B.S. in Engineering Science (concentrate on Computer Science field)

GPA: 3.71/4.00

ADDITIONAL PROGRAMMING SKILLS

Java/JSP, ASP.NET, Python/Flask, PHP, Java/Android, Objective C, Hadoop, Pig, Mahout, Hive, HBase, PostgreSQL, Kafka, Gulp, Less