

# MICHAEL SIU

SOFTWARE ENGINEER

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## TECHNICAL SKILLS

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- **Language:** Javascript [ ES5 & ES6]
- **Front End:** HTML5 | CSS | React | Redux
- **Back End:** Node.js | Express | MongoDB | MySQL | PostgreSQL | RESTful API Development
- **Testing/Deployment:** Jest | Enzyme | Artillery | AWS S3 | AWS EC2
- **Developer Tools:** Git | NPM | Webpack | Babel | Agile Methodology

## APPLICATIONS

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**Hire-Mee, PostgreSQL | Express | React.JS | AWS**

- Co-designed and developed a web application for users to keep track of all their job enquiries
- Architected a dynamically-rendered home page based upon a user's clicked selection
- Constructed a statistics page with a graph and pie chart that contains conditionally rendered data according to what user is logged in
- Built a settings page with an option to reset their monthly application numbers and an account deletion button
- Implemented a logout function to render the home page back to the sign-up/login page

**E-Commerce Clone System Design, MongoDB | PostgreSQL | Express | AWS | Loader | Artillery | K6**

- Generated and stored 10 million simulated products via a CSV file script
- Benchmarked the query times between MongoDB and PostgreSQL and reduced the queries to an average of 5ms per request with indexing
- Horizontally scaled the RPS capability of 1 EC2 instance with 700RPS, 0% error rate and 89ms average response time, to 4 EC2 instances with 10,579RPS, 0% error rate and 61ms average response time via creation of a load balancer and through caching using NGINX

**E-Commerce Clone, MySQL | Express | React.JS | Node.JS | AWS**

- Built a Fenty Beauty related products clone using React
- Utilized a service oriented architecture to encapsulate the Nav-bar, Product, Related-Products and Reviews Module
- Generated and stored 100 unique product records using MySQL
- Created a related product carousel that is dynamically rendered using the React framework
- Deployed the application and database to an AWS EC2 instance

## CAREER SUMMARY

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**Quinn Company**

**Riverside, CA**

*Information Technology - Helpdesk Technician*

*Oct 2017 - Apr 2018*

- Supervised and onboarded two junior technicians and monitored their development of best operational practices
- Integrated users to Office 365 from IBM Lotus Notes
- Organized and documented software licenses, hardware assets, and cellular reimbursements
- Provide timely detailed and high-level reports to management of critical operations

## EDUCATION

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**Hack Reactor @ Galvanize**

**Los Angeles, CA**

*Full-Stack Software Engineering Immersive*

*2020*

- Accelerated 12 week program in learning the fundamentals of building a full-stack application with over 1100 hours of coding

**University of California, Riverside**

**Riverside, CA**

*Bachelor of Science, in Economics/Administrative Studies*

*2018*

- *Concentration in Management Information Systems*