JUN JO

Full-Stack Software Engineer

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TECHNICAL SKILLS

Front-End: JavaScript (ES6+), React, Redux, jQuery, Bootstrap, HTML, CSS3

Back-End: Node, Express

Platforms & Databases: AWS, Docker, Nginx, MySQL, Sqlite3, SQL, MongoDB, Mongoose, Redis

Tools & Others: Webpack, Git, Mocha, RESTful API

SOFTWARE APPLICATIONS

BadEgg | Full-Stack Developer | https://bit.ly/2HS6oXA
MongoDB, Express, AWS ec2, Nginx, Docker, PostgreSQL, Redis
Redesigned and optimized an existing app to implement a highly scalable backend architecture

- Migrated from **PostgreSQL** to **MongoDB** based on metrics of reads and writes, transactional integrity, and immediate consistency of data.
- Implemented **Nginx** as a load-balancing solution to distribute network requests.
- Identified database as the bottleneck and explored the option of using **Redis** as a cache, which increased throughput from ~500 RPS to ~1.5k RPS at a latency of 42ms.
- Decreased query latency from 6,000ms to 60ms by denormalizing existing database.
- Deployed my service to **AWS ec2** instances using **Docker** to provide a consistent environment.

MassLift | Full-Stack Developer | https://bit.ly/2YqBfJW
React, HTML5, CSS3, Node, Express, Sqlite3, AWS
Designed and developed an interactive product discussion board

- Constructed a **RESTful API** using **Node** and **Express** to retrieve data from **SQLite3** database.
- Utilized **React** lifecycle methods to dynamically render product discussion board.
- Optimized the component load speed by ~80% using **gzip** text compression.
- Deployed a server to **AWS ec2** instance that interacted with multiple service components to render a single page application to adhere to Service Oriented Architecture design.

EDUCATION

Hack Reactor	Advanced Software Engineering Immersive	2019
Johns Hopkins University	M.S. in Finance	2019
Stony Brook University	B.S. in Biochemistry	2005 - 2010