Lang Gao

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SUMMARY

Software Engineer with a master's degree in Computer Science, specializing in full stack web development technologies including React, Node.js, Express, Rest, SQL/NoSQL with hands on experience in data processing with Python and advanced data structures in Java. Looking for a full-time position as a Full-Stack Web Engineer.

EDUCATION

Temple University, Philadelphia, PA

1/16-5/18

Master of Science: Computer Science Hubei University, Hubei, China GPA: 3.27/4

Bachelor of Engineering: Chemical Engineering and Technology

9/10-6/14 GPA:3.67/4

SKILLS

Programming Languages: Java, JavaScript, Python, C, C++, C#, Swift

Web: React, AngularJS, Django, Redux, Express, Node.js, React Router, Webpack, HTML, CSS, REST, SOAP

Database: PostgreSQL, MySQL, MongoDB, SQLite

Knowledge: Git, Spring MVC, Hibernate, Spring Boot, Spring Cloud, Adobe XD

EXPERIENCE

Full Stack Developer, Mutuality, Philadelphia, PA

7/18-9/18

- Designed web application development roadmap, prototyped it with Adobe XD and facilitated modular programming and customization of application to user needs
- Led software development of products from requirement definition through successful deployment on AWS EC2 for future scaling

Research Assistant, Temple University, Philadelphia, PA

12/15-12/17

- Conducted extensive molecular dynamics analysis on particle-based trajectories with Linux command lines and Python on High Computing Clusters, reduced computation time by 50% using multiprocessing
- Tuned KNN classifier for body movement pattern classification in Python with over 87% average accuracy
- Solved the problem of unobtrusive and secure authentication of multiple devices by designing novel algorithms
- Discovered a new way of diagnosing Mild Cognitive Impairment by performing Python analysis on acceleration data collected from smart devices with 100% accuracy

Software Engineer Intern, Unite Filtration Equipment Co., Ltd., Wuxi, China

5/17-8/17

 Introduced and designed IoT system by rewriting embedded systems and developing Android applications to enable remote monitoring, and predictive maintenance and analytics which contributed to a \$0.58 million PTU filtration equipment sale

Teaching Assistant, Temple University, Philadelphia, PA

9/14-12/16

 Led weekly lab sessions instructing a total of 120 undergraduate students on courses including Data Structures, Python and Java programming, network security, etc., received "Upper performance" rating by the students

SELECTED PROJECTS

STONIE: An E-commerce website for trading stones (Node.js + MongoDB + Handlebars)

7/18

- Utilized Node.js CSRF protection middleware for online session security and Passport middleware for unobtrusive authentication
- Implemented payment system with stripe API and managed user and product data with MongoDB

Lemon Music: A music web application (React +Redux + Webpack)

6/18

- Implemented routing with **React-router** and used **webpack** for dependency graph building and bundle generation
- Managed the states and properties of songs and albums using Redux with actions, reducers, and store
- Created animations for music player component with react-transition-group
- Utilized JSONP to fetch data from QQ Music API and React-lazyload to optimize image loading

Smart Demographics: A demographic analysis web application (React + Redux + Node.js + Express)

5/18

- Developed the **ES6** based frontend with **React Router**, **Redux**, and **Clarifai API**
- Implemented backend with Node.is and Express.is, used REST to leverage the HTTP protocol
- Applied Knex.js as a PostgreSQL query builder in Node.js for user data management