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Lang Gao

EDUCATION:

Temple University, College of Science and Technology January 2016-May 2018
Master of Science: Computer Science

Hubei University, Department of Chemistry and Chemical Engineering September 2010-June 2014
Bachelor of Engineering: Chemical Engineering and Technology

SKILLS:

Programming Languages**:** Java, C, C++, JavaScript, Python, Swift
Web: React, AngularJS, Django, REST, ASP.NET, Redux, Express, Node.js, React Router, Webpack, HTML, CSS
Database: PostgreSQL, MySQL, MongoDB
Knowledge: Spring Boot, Spring Cloud, SOAP, Jasmine
Design: Illustrator, Photoshop, InDesign

PROFESSIONAL EXPERIENCE:

Mutuality, Philadelphia, PA
Full Stack Developer June 2018-Present

- Built and configured servers with **Node.js** and **Express.js**, handled **UI** designs
- Designed and implemented **PostgreSQL** databases for storing large amount of user data
- Deployed applications using **AWS S3** and managed databases on **AWS RDS**

Temple University, Philadelphia, PA September 2014-December 2016
Teaching Assistant

- Led weekly lab sessions instructing a total of 120 undergraduate students on courses including Data Structures, Python and Java programming, network security, etc.

PROJECTS:

Lemon Music: A React based music web application June 2018

- Implemented routing with **React-router** and used **webpack** for dependency graph building and bundle generation. Configured **Stylus** as **CSS** preprocessor
- Managed the states and properties of songs 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 React based web application for demographic analysis of images May 2018

- Developed the **ES6** based frontend with **React Router**, **Redux**, and **Clarifai API**
- Implemented backend with **Node.js** and **Express.js**, used **REST** to leverage the **HTTP** protocol
- Used **Knex.js** to connect to **PostgreSQL** database

Election Prediction: A Python opinion mining project April 2016

- Collected and analyzed 1.25M tweets using **Python** and **Twitter API**
- Performed sentiment analysis using the open source dictionary **SentiWordNet**

RESEARCH EXPERIENCE:

Sensor-based human-activity detection for Mild Cognitive Impairment (MCI) diagnosis. January 2016-Present

- Collected and analyzed acceleration data using **Python** for MCI diagnosis
- Designed algorithms and protocols for optimum MCI diagnosis sensitivity and efficiency

Multiple wearable devices authentication based on acceleration data. December 2015-May 2016

- Developed an **Android** application for acceleration data collection
- Analyzed body movement patterns using **Python** and generated secure cryptographic keys using **PyCrypto**
- Designed algorithms for unobtrusive authentication of multiple devices