Bicheng (Sam) Xu

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EDUCATION

NORTHEASTERN UNIVERSITY, Seattle, WA   Expected Graduation Date: May 2019
Master of Science in Computer Science | GPA: Pending

UNIVERSITY OF CALIFORNIA, SAN DIEGO   Sept 2012 - June 2016
Bachelor of Science in Chemical Engineering | GPA: 3.55

TECHNICAL KNOWLEDGE

| **Programming Languages** | • Java | • Python | • JavaScript | • HTML5/CSS | • SQL | • C |
| **Technologies** | • AWS | • REST API | • Node | • Express | • React | • Git |

EXPERIENCE

eBaoTech | Software Engineer Intern | Shanghai, China   July 2017 - Sept 2017
Node.js, Express, REST API, MySQL, Passport.js
- Built REST API with Express framework for MySQL database CRUD operations for data management
- Migrated existing data from Excel to MySQL and used indexes to optimize query performance
- Cooperated with frontend team to develop search, bulk insert and pagination functionalities
- Implemented robust role-based user authentication using Passport.js to protect API endpoints

PROJECTS

TEAMMATES | Open Source Project Contributor | Seattle, WA   May 2017 - Present
Java, Java EE, JUnit, Travis CI, Git, JavaScript
- Maintained and improved existing backend services and fixed UI bugs using JavaScript and CSS
- Collaborated with developers on Github and contributed over 15 patches to the project
- Assisted reviewing code in pull requests to maintain a readable code base

Homely | Pacific Northwest National Laboratory Hackathon | Seattle, WA   Nov 2017 - Nov 2017
Sails.js, Node.js, MongoDB, AWS EC2, Python
- Engineered an Android App that helps the homeless find safe shelter and meal programs based on gov database
- Configured MongoDB and REST API using Sails.js on AWS EC2 for login and data retrieval functions of the app

Airbnb Listing Data Analysis and Prediction | San Diego, CA   Feb 2017 - Mar 2017
Python, Numpy, Pandas, Matplotlib, Scikit-learn
- Utilized Python libraries to rearrange and visualize listing data to analyze the popular trend in Seattle area
- Explored the most accurate regression model to predict future price using Scikit-learn

eBay Market Analyzer | San Diego, CA   Oct 2016 - Nov 2016
JavaScript, React, Redux, Promise, SASS
- Developed a single page responsive web application with mobile first approach using React.js and Bootstrap
- Extracted historical sales data from eBay API via AJAX requests for better user experience using Axios

LEADERSHIP EXPERIENCE

Global TIES, UCSD | **Project Leader**   Sept 2015 - Jan 2016
- Redesigned course website and made it easier for 300 senior citizens to continue their studies in UC San Diego

AIChE, UCSD Chapter | **Marketing Chair / Young Professionals**   Apr 2014 - Jun 2016
- Updated official website weekly and advertised events to 800+ students and alumni via Facebook and email
- Worked closely with 8 board members to plan and organize over 12 events every quarter