Zhiyang (Stid) Zhang

Computational Mathematics Joint Computer Science University of Waterloo

Summary of Qualifications

- Languages: Python, JavaScript/TypeScript, SQL, C#, C/C++, R and Scheme
- Web Development: Node.js, Vue.js, Serverless, AngularJS, ASP.NET and Flask
- o Technology Stacks: AWS, Visual Studio, MongoDB, Heroku and Raspberry Pi
- o Familiar with agile development and have an outstanding self-learning ability

Work Experience

Sep. 2018 - Trading Products Software Engineer, BMO Capital Markets, Toronto, ON.

Dec. 2018 O Core developer for web-based industry leading fixed income analysis tool

- Created customizable real-time dashboard page based on user preference
- Utilized websocket workload and performance for live analysis data
- Built core rates module to access industrial clients data in OLAP cubes friendly
- Worked with Node.js, Vue.js, Oracle database, ASP.NET, TypeScript and SQL Server

Jan. 2018 - **Software Engineer**, *Bazaarvoice*, Austin, TX, USA.

Apr. 2018 O Developed Serverless web application for performance analysis in Python and AngularJS

- Collaborated with managers to build metrics for measuring team performance
- Optimized planning process by providing visualized analysis that reflects project progress
- Utilized ETL scripts which process project and repository data from JIRA and GitHub
- Worked with AWS Lambda, API Gateway, Redshift and S3

May. 2017 - Python Software Developer, ARB Labs, Inc, Niagara Falls, ON.

Aug. 2017 • Worked on computer vision project that recognizes casino chip values by camera

- Wrote image and video acquiring and processing modules with OpenCV
- Created web patching tool for data labeling with Flask and AngularJS on AWS
- Investigated solution for color calibration, motion blur detection and image rectification
- Also worked with MongoDB, RabbitMQ, Celery and Bash scripting

Sep. 2016 - Full Stack Developer, PerkinElmer Innovation Lab, Kitchener, ON.

Dec. 2016 • Used machine learning to predict maintenance schedule for lab instruments

- Prototyped IoT systems on Raspebrry Pi with real time data commnuication and analysis
- Developed corresponding mobile and web HTML5 application with Ionic and Node.js
- Worked with R, Azure, Docker and scikit-learn

Jan. 2016 - Investment Developer, Equitable Life of Canada, Waterloo, ON.

india 2010 investment beveloper, Equitable line of Canada, Waterloo, Or

- Apr. 2016 O Developed Flask web application for pre-trade authorization and data analysis purposes
 - Automated post-trade notification and data validation processes
 - Rewrote and utilized Python and VBA batches for financial data analysis
 - Optimized unit test module for the portfolio management system

Education

Sept. 2014 - Candidate for Honours Bachelor of Mathematics, Computational Mathematics,

Apr. 2019 Joint Computer Science, University of Waterloo, Waterloo, ON, Canada.