

Zhiyang (Stid) Zhang

*Computational Mathematics
Statistics Joint Computer Science
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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
- Technology Stacks: AWS, MongoDB, Docker, scikit-learn and PyTorch
- Familiar with agile methodology and have an outstanding self-learning ability

Work Experience

- Sep. 2018 - **Trading Products Software Engineer**, *BMO Capital Markets*, Toronto, ON.
Dec. 2018
- 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
- 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 Raspberry Pi with real time data communication 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.
Apr. 2016
- 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 - **Honours Bachelor of Mathematics, Computational Mathematics, Statistics, Joint
Computer Science, GPA: 80/100**, *University of Waterloo*, Waterloo, ON, Canada.
Apr. 2019