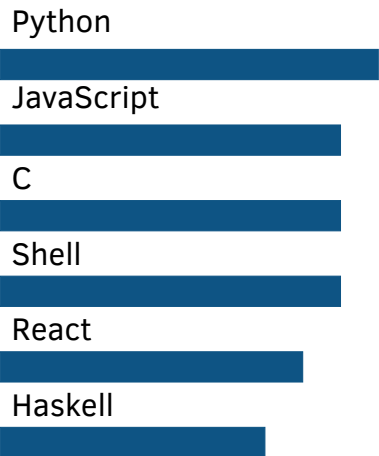# Luke Zhang

🌐 Toronto, ON

</> lukezhang.us

@ lukel.zhang@mail.utoronto.ca

Practical and curious undergraduate computer scientist with excellent leadership and programming skills. Seeking to further my data science career.

Languages

Python

JavaScript

C

Shell

React

Haskell

Data Science: Numpy, Matplotlib, Scikit-learn, Pandas, Tesseract OCR, MV Calculus, Linear Algebra, Statistics
Languages/Editors: R, Octave, SQL, NoSQL, VSCode, Jupyter
Architectures/Frameworks: REST, GraphQL, PubSub, SOLID, Scrum, Kanban
Tools: Docker, Git, Jenkins, Jira/Confluence

Work Experience

Scotiabank: DevOps Intern   Sept-Dec 2019

* DevOps Intern in Payment Modernization department developing pipelines and visualizations to facilitate day-to-day operations for 80,000+ employees

* Provisioned CentOS development environments for CI/CD utilizing Jenkins, Bash, Ansible, YAML, and Docker

* Designed and deployed dashboards with crucial DevOps metrics such as lead time, deployment frequency, as well as analytics on level 3 service tickets. Tech stack: Grafana, Python, InfluxDB, and Jenkins

* Presented deliverable in front of 200 employees and received high praise from the department's VP. Similarly, participated in Scotiabank Intern Hackathon and placed 2nd, winning 3 Amazon Fire Tablets

IFDS: Software Developer   Jan-Apr 2019

* Developed Java and Progress ABL incremental compilation software in an Agile team for IFDS's main product, iFast, a world-leading technology solution in the financial industry

Education

University of Toronto: Fourth Year   2017-Present
Computer Science Major (Co-op): Software Engineering Specialist
Statistics Minor
GPA: 3.72/4.0

Projects

- **Machine Learning:** Developed a multitude of machine learning models completing 200+ hours of work. Removed red text from images using 2D RBF Regularized Regression. Trained a model on the wine dataset using Multiclass Logistic Regression and Gradient Descent. Implemented K-fold CV and Random Forest with 7 hyperparameters. Employed GMM and K-Means++ to cluster words in a document. Demonstrates outstanding understanding of complex math and invaluable experience.

- **Collaborative Code Editor (CodeCollab):** Led a team of 3 to develop a web app leveraging myriad technologies: MongoDB, Express, React, Node, TypeGraphQL, TypeScript, Tailwinds, Tesseract, ShareDB Sockets, Codemirror, Digital Ocean, Cloudflare, and Nginx. Invested 500+ combined hours. Received high praise from the professor and ended with a 4.0/4.0. Demonstrates superb capability of quickly learning new technologies and integrating them seamlessly.