Luke Zhang

Toronto, ON

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EDUCATION

University of Toronto: Fourth Year   **Toronto, ON**
BSc in Computer Science Coop GPA: 3.72/4.0   *Expected Graduation: June 2022*

EXPERIENCE

Scotiabank   **Toronto, ON**
Software Engineer Intern - Velocity Program   *Sep 2019 – Dec 2019*
- Provisioned CentOS development environments thus improving CI/CD saving 50+ hrs/month
- Visualized and cleaned 2000+ lead time and deployment frequency data points from Jenkins and Github
- Automated ETL process on 5000+ level 3 tickets from ServiceNow using Grafana, InfluxDB, and Python
- Commended by VP for presenting department metrics to 200 employees enabling data-driven improvement
- Placed 2nd in Intern Hackathon for prototyping an integrated round-up donation system, awarded $300
- **Tools**: Python, Shell, YAML, Docker, InfluxDB, Grafana, Ansible, Vagrant, Git, Jenkins, ServiceNow, Figma

International Financial Data Services   **Toronto, ON**
Software Engineer Intern   *Jan 2019 – Apr 2019*
- Reduced unnecessary file compilations for iFast resulting in an 11% time decrease, from 152 to 135 minutes
- **Tools**: Java, Shell, Apache Ant, Make, C, JUnit, Tomcat, Git, Jenkins, Progress ABL, Eclipse

PROJECTS

Collaborative Code Editor (CodeCollab)
- Developed a scalable, collaborative, coding environment for writing and previewing HTML/CSS/JS
- Led a team of 3, totalling 500+ work hours, and secured a 4.0/4.0 and acclaim from professor
- Realized three-tiered MERN (MongoDB, Express, React, Node) architecture on DigitalOcean droplet
- Routed HTTP and Web Socket requests to Apollo GraphQL frontend/backend using Nginx reverse proxy
- **Tools**: MERN, GraphQL, TypeGraphQL, TypeScript, Nginx, Tailwind, ShareDB, Cloudflare, Tesseract OCR

Restaurant Loyalty System (PickEasy Rewards)
- Developed a gamified, centralized, loyalty website for restaurants to attract and retain customers
- Led a team of 5, totalling 700+ work hours, and frequently met with PickEasy to ensure client satisfaction
- Awarded 1st Place project in SoftEng course receiving a 5% grade increase and ended with 4.0/4.0
- **Tools**: MEAN (MongoDB, Express, Angular, Node), REST, QRCode, Jasmine, Heroku, Amazon S3

Machine Learning
- Leveraged many machine learning models in real-world scenarios, completing 200+ hours of work
- Removed red text from images using 2D regularized Radial Basis Function (RBF) Regression
- Classified types of wine using Multiclass Logistic Regression and Gradient Descent
- Predicted loan payback likelihood using K-fold Cross-Validation and Random Forest with 7 hyperparameters
- Clustered documents based on word frequency using Gaussian Mixture Model and K-Means++
- **Tools**: Python, NumPy, Pickle, Matplotlib, Scikit-learn, Jupyter

ADDITIONAL

- Programming Languages: Python, C, C++, Java, Shell, HTML/CSS, JavaScript, NodeJS, React, SQL, NoSQL, R, Haskell, Octave
- Small Group Leader: Led and planned Bible discussion for ~10 university students for 2+ years
- Hobbies: [Table] Tennis, Reading Thriller/Mystery/Scifi, Learning Chinese, Zoom Yoga, Biking