Lise Savard

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SUMMARY

Aspiring software engineer exploring full-time new grad opportunities starting in June 2020. I'm particularly interested in systems, infrastructure, and backend.

EDUCATION

University of British Columbia, B.A.Sc Computer Engineering, GPA: 3.99/4.00 — EXPECTED: MAY 2020

- 2017, 2018, 2019 Trek Excellence Scholarship (awarded to top 5% of faculty)
- 2018 ECE Undergraduate Scholarship
- 2018 Engineering Physics Anniversary Scholarship (1 out of 240)
- Undergraduate TA for CS320: Intermediate Algorithms

EXPERIENCE

Facebook, Software Engineer Intern — SEP 2019 - DEC 2019

- Implemented a system to allow revoking of verified status from businesses on Facebook's platforms
- Worked cross-functionally with designers, content creators, and internal customers to get a full end-to-end user experience launch ready weeks ahead of schedule

Stripe, Software Engineer Intern — MAY 2019 - AUG 2019

- Transitioned Stripe's PCI-compliant cardholder environment from push-based deployments over SSH to a highly-secure, push-based deployment system

A Thinking Ape, Software Development Engineer Co-op — MAY 2018 - AUG 2018

- Feature development for multiplayer mobile game using Unity, C#, Python, and Django
- Optimized client memory usage by 10% and reduced initial app load time by 12 seconds
- Created a leaderboard system to reward players for participating in realm-wide competitions

Copperleaf Technologies, Software Developer Co-op — JAN 2017 - APR 2017

- Wrote back-end features using C# for Copperleaf's asset analytics software

University of British Columbia, Undergraduate Research Assistant — JUN 2016 - AUG 2016

- Wrote a Python GUI program to control and automate a laser during experiments on carbon nanotubes
- Program has been in daily use since 2016 and has saved hundreds of grad-student-hours

PROJECTS

MagnetoDB - Java, Python, Ansible, Docker, AWS EC2 — 2019

- Horizontally scalable, fault-tolerant, key-value store developed in Java, modelled on Amazon DynamoDB
- Created tooling for health monitoring, node bootstrapping, and deployment
- System demonstrated >99% record retention after 10 rounds of node failures and rejoins, and beat the TA's throughput even though they cheated and used C++ :)

KAOS: Kerbodyne Analytic Orbit System - Flask, Postgres, React — 2019

- Mission planning system to compute satellite-to-site visibility for imaging satellites
- Used a novel interpolative algorithm to compute visibility 3.5x faster than conventional algorithms

Optimal Node Placement for TensorFlow Serving - Python, TensorFlow — 2018

- Explored placement strategies to split trained TensorFlow models across different compute node types in order to identify bottlenecks and improve inference throughput

SKILLS

PROFICIENT: Python, Go, Java, C, C#, Git, Ansible, Linux/Unix

FAMILIAR: MySQL, Thrift, Presto, React, Flask, Unity, .NET, AWS, Terraform