Lanfeng Sun

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Seeking an internship from Sept 2020 to Dec 2020

EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Computer Science; Cumulative GPA: 94% — *Sept. 2016 – Apr. 2021 expected*

Université Paul-Valéry — Montpellier, France
Study Abroad (Math in Europe) — *Apr. 2017 – Aug. 2017*

National University of Singapore — Singapore
Academic Exchange Program — *Jan. 2020 – May. 2020*

SKILLS

- **Languages**: Python, Javascript, C++, C, SQL, Go, LaTeX, R, Sass, VBA
- **Technologies**: Airflow, Kubernetes, AWS, GCP, React.js, MongoDB, Bash, Git, Node.js
- **Certificates**: AWS Certified Cloud Practitioner
- **Relevant Courses**: Algorithms, Operating Systems, Numerical Computation, Concurrent Programming, Information Theory, Quantum Computing, Machine Learning, Computer Security

EXPERIENCE

Instacart — Toronto, ON
Software Engineer Intern — *Sept 2019 - Dec 2019*
  - **Multi-tenated Chain**: Migrated the catalog ELT chain from cron jobs on compute boxes to Airflow on Google Composer and Kubernetes, while streaming logs to Datadog for monitoring.
  - **Encryption**: Implemented key decryption on Kubernetes Pod environment to allow encrypted configurations.

Wish — Toronto, ON
Full Stack Engineer Intern — *Sept 2018 - Apr 2019*
  - **External API**: Implemented and maintained new features in external APIs that have over 5 million daily calls and over 100,000 users, set up Grafana Dashboard to monitor usage and identify malicious attempts.
  - **React**: Rewrote the front end applications using React.js to reduce thousands of lines of boilerplate code.
  - **MaxBoost**: Released MaxBoost to beta users to advertise products on external sources such as Facebook.
  - **Business Reports**: Designed and improved business reports to monitor critical services and daily operations.

Dell EMC — Burlington, ON
Software Engineer Intern — *Jan 2018 - Apr 2018*
  - **Test Application**: Developed a test application to simulate backup, restore, and rollback for database files.
  - **Legacy Code**: Ported thousands of lines of legacy C code into C++ code with Boost library.

ONLINE COURSES

- **Machine Learning**: Supervised learning using linear regression, logistic regression, neural networks, and support vector machines. Unsupervised learning using clustering and principal component analysis. Built a email spam filter classifier with over 98% test accuracy.
- **Ethical Hacking**: Used Kali Linux to perform network penetration testings, server side and client side attacks, and to exploit SQL injections and XSS vulnerablities.
- **Advanced CSS**: Designed responsive websites using flexbox and CSS grid, with minimum usage of Javascript.

ADDITIONAL INFORMATION

- **Interests**: Basketball, photography, reading, traveling, finance, workout, music, movies, piano, cooking.
- **KWCSSA**: Directed Voice of Waterloo singing competition with over 300 audience for KWCSSA in Nov 2017.
- **Math in Europe**: Self-managed a study term in Europe (Rome and Montpellier) during Apr - Jul 2017.
- **Basketball**: Led the high school Varsity Basketball team to qualify for New Brunswick Provincial Final in Feb 2015.
- **Movies**: Huge fan of Marvel Cinematic Universe.