

Steven Du

COMPUTER SCIENCE

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Skills

Languages Python, C++, Java, JavaScript, Swift, SQL, R
Tech/Frameworks AWS, Docker, Kubernetes, Spring, Firebase, Keras/TensorFlow, Numpy, Django

Experience

KeepTruckin

SOFTWARE ENGINEERING INTERN

San Francisco, CA

Expected Jan 2021 - Apr 2021

- Incoming intern on the Dispatch team

MEGAComfort

SOFTWARE ENGINEERING INTERN • PYTHON, JS, SQL

Toronto, ON

May 2020 - Sep 2020

- Designed database to model business entities and transactions; optimized queries of hierarchical data using modified preorder tree traversal
- Wrote a reusable dashboard app in Django for visualizing and manipulating data with dynamic filtering that was integrated into 3 separate projects; implemented generic chart, table, and map widgets
- Implemented user authentication with roles and permissions, and set up invitations-based user registration

Fleet Complete

SOFTWARE ENGINEERING INTERN • JAVA, SWIFT, JS, SQL

Waterloo, ON

May 2019 - Sep 2019

- Amended REST API to include new endpoints and optimized queries for fetching data from a Postgres database
- Changed app notification functionality: switched from Urban Airship to Firebase, created web service for sending directed messages to mobile clients, suppressed notifications while driving
- Developed a new system for triggering events (such as Bluetooth state resets) on iOS and Android mobile clients through server requests

Projects

vir *C++*

- Used the ncurses library to create a command line text editor that offers functionality similar to vim and made good use of object-oriented programming and C++ design patterns
- The editor offers support for multiple file editing, multiplied commands, macros, searching, and syntax highlighting

indicate *Python*

- Created an individual stock indicator based on sentiment analysis conducted on a stock predictions subreddit and financial news, as well as technical analysis and analyst ratings from Yahoo Finance
- Hosted a Django web-app on an AWS EC2 instance and Apache server that allows users to subscribe to a daily mailing list and browse indicators

Education

University of Waterloo

CANDIDATE FOR BACHELOR OF MATHEMATICS, 90.24 CGPA, 91.69 MAJOR AVERAGE

Waterloo, ON

Sep 2018 - Present

Double Major in Computer Science, and Combinatorics and Optimization

Relevant Courses: OOP, Algorithms, Graph Theory, Optimization, Linear Algebra, Probability