

JAKE CURRAN

4A Mathematics student at the University of Waterloo

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SUMMARY

Languages: *Java, Python, JavaScript, Rust, C/C++, Bash*

Tools: *Git, Jira, Make, Maven, SVN*

Frameworks & Libraries: *Express, Spring, React, Django*

Other: *SQL, MongoDB, Linux, L^AT_EX*

- Passionate about *systems level languages* and *infrastructure development* (back-end, native, cloud, SRE, etc.)
- Have demonstrated strong performances under development roles in business (FinTech, InsurTech), start-up, and government environments

PROFESSIONAL EXPERIENCE

Tradable Bits

Sept. - Dec. 2019 | Vancouver, Canada

Full-stack Developer

‘Outstanding’ evaluation

- Developed full-stack platform features in **Python/Django/PostgreSQL** and **JavaScript**, including code to interface with the **Facebook Graph API** among other ads APIs
- Redesign request profiling system to include more thorough results by parsing **NGINX** logs and storing aggregate results for each unique request path and time interval
- Enabled demographic sampling statistics for fans located in Canada using StatsCanada census data and **PostGIS** to map dissemination areas to forward sortation areas

Empire Life

Sept. - Dec. 2018 | Toronto, Canada

Full-stack Developer

‘Outstanding’ evaluation

- Led a new support initiative to decrease support team load in developing a **chatbot** and knowledge base for the most routine inquiries
- Developed the chatbot and knowledge base front ends using the **React** framework, and implemented a **Node.js** chatbot back end with Google Cloud, Zendesk integration
- Prototyped a **Python** service to transcribe support calls into an **SQLite** database to perform basic analysis to inform support priorities

Communications Security Establishment

Sept. - Dec. 2017 | Ottawa, Canada

Back-end Developer

NA (attained outside of coop program)

- Developed a prototype concerning HATEOAS to assess the prospects of a central server, using **Java** and the **Spring** framework, to combine functionality across hypermedia services

Capco

Jan. - Apr. 2017 | Toronto, Canada

Technology/Development Consultant

‘Outstanding’ evaluation

- Developed and maintained features for a back-end channels REST application in Java using the Spring framework, as part of an onboarding application for a major bank
- Collaborated with other co-op students on a financial, **machine learning** proof of concept; was responsible for developing the backend services in **Node.js** using **MongoDB**, and a front-end application for mobile using the **Ionic** framework with **AngularJS**

SeamlessMD

May - Aug. 2016 | Toronto, Canada

Growth Data Analyst

‘Very Good’ evaluation

- Developed **JavaScript** scripts and data visualizations (including custom visualizations using **D3**) to operate on an internal REST API in JSON of patient activity data
- Developed scripts and platform improvements with the goal of providing client hospitals with actionable insights in regards to their surgery care process

EDUCATION

University of Waterloo

2021 | Waterloo, Canada

Candidate for Bachelor of Mathematics