

DHRON JOSHI

3B Computer Science

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WORK EXPERIENCE

Software Developer

Jan 2018 — April 2018 (Present)

Ubiquitous Health Technology Lab; University of Waterloo

Waterloo, ON

- Developed Python scripts using Pandas and NumPy to clean and analyze sleep and movement behaviour data in North American households using smart thermostats.
- Engineered a ETL pipeline using Python and Cassandra to improve data querying and analytics, efficiently processing over 2 years of motion data across 10,000 households.

Web Developer

Apr 2017 — Sept 2017

Ontario Institute for Cancer Research — (OICR)

Toronto, ON

- Migrated 20 high-traffic OICR sites to accommodate MERN stack and reduced deployment times by 40%.
- Developed Markdown validators in JavaScript for files inserted into Apache Solr for indexing.
- Collected system metric data using Grafana and InfluxDB for analysis prior to production.
- Implemented a live-preview API written in Ruby extending core functionality.
- Managed staging server infrastructure.

CS246 Instructional Support Assistant

Aug 2016 — Dec 2016

CS246 - Object-Oriented Software Development; University of Waterloo

Waterloo, ON

- Taught object-oriented concepts and design patterns to students.
- Enhanced students' understanding of object-oriented development in C++, improving the class midterm average by 7% from previous term's administration.
- Developed and released new tutorial and review content to aid in students' learning throughout the term.

PROJECTS AND ACTIVITIES

Velocity Residence

Sept 2017 — December 2017

Entrepreneurship Program

- Focused on developing entrepreneurial skills.

Switter — HackHarvard

Oct 2016

Financial Decision Web App

- Worked in a group of four to develop a web app that performs sentiment analysis on tweets containing stock symbols.
- Implemented functional UI features using React.js, Redux, and Chart.js on the front-end based on Material Design principles.

EDUCATION

University of Waterloo

Candidate for Honours Bachelor of Computer Science Co-op

Sept 2015 - Apr 2020 (Expected)

- CS Coursework: Algorithms, Operating Systems, Data Structures and Data Management
- **Coursera:**
 - *Stanford University* - Machine Learning (Present)
 - *Stanford University/University of British Columbia* - Game Theory (Present)