

DAVID SHAN

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EDUCATION

University of Toronto
H.B.Sc Computer Science

June 2020

SKILLS

PROGRAMMING LANGUAGES & TECHNOLOGIES: JavaScript, Node.js, AngularJS, Java, Python, C, Git, SQL, Cassandra, HTML/CSS

RELATED COURSEWORK: Software Design, Systems Programming, Web Programming, Data Structures, Databases, Algorithm Analysis

EXPERIENCE

OpenText, *Software Developer Intern*
Waterloo, ON

May 2018 - Dec. 2018

Full stack development for OpenText Core, a cloud storage web application.

- Developed a **Ruby** script from start to finish (planning, coding, deployment), which successfully migrated **~30TB** of customer info between two remote data centers
- Generated hot-fixes and co-led the communication between the development and deployment teams during the multi-week migration, ensuring everything was done smoothly and according to specification
- Developed solutions to bugs inside the **NodeJS** back-end and **AngularJS** front-end, with supporting **Mocha** integration tests and documentation
- Performed QA and regression testing to investigate potential issues/bugs

Hart House Singers, *Webmaster*
Toronto, ON

Sept. 2015 - Apr. 2017

Web maintenance and executive member for a local choir group

- Collaborated with an executive team frequently to discuss event planning and improvements to the club, which ensured transparent communication between members and committee and allowed club to run smoothly
- Responsible for maintaining the official website using the **Wordpress** framework

PROJECTS

Out of This World Cafe Ordering System

May 2019

- Mobile food pickup service for a charity organization: the Working for Change's project "Out of This World Café"
- Created the customer ordering cart page with **Javascript, HTML/CSS, Bootstrap**
- Set up the **MongoDB Atlas** database, populated it with menu items, and connected it to the **Python back-end**
- Responsible for hosting on **Heroku** using **Docker** containers, and communicating regularly with the café's head of operations

HumIT

Sept. 2017

- Submission for HackTheNorth. A **Java** based application that intelligently searches for songs by the way they sound through humming and/or singing
- Implemented core logic of sound matching algorithm, utilizing databases generated with **CockroachDB** and **PostgreSQL** to match correct song info

File Synchronization Program

Apr. 2017

- Portable, network-capable file synchronization system built for **UNIX systems using C**
- Implemented with socket programming and multi-threading capabilities for fast and responsive feedback

Image Tagger

Nov. 2016

- Image tagging program built using **standard Java libraries and Swing components**.
- Implemented entire server-side using **industry-standard design patterns** (Facade, Singleton), with a fully functional GUI