

# DAVID SHAN

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## EDUCATION

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### University of Toronto

H.B.Sc Computer Science

Toronto, ON

Graduated June 2020

- Related Coursework: Software Design, Systems Programming, Web Programming, Operating Systems, Databases

## EXPERIENCE

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### OpenText

*Software Developer Intern*

Waterloo, ON

May 2018 – Dec 2018

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

- Assisted in the development of a **Ruby** script from start to finish (planning, coding, deployment), which successfully migrated **~120TB** of customer data between two remote data centers
- Generated hot-fixes and co-led the communication between the development and deployment teams during the two week migration, ensuring everything was done smoothly and according to specification
- Implemented performance-enhancing features and fixed bugs in the **Node.js** back-end and **AngularJS** front-end, with supporting **Mocha** integration tests and documentation – reducing home page loading time by 16%
- Performed QA and regression testing to investigate potential issues and bugs
- Mentored incoming interns to catch them up with the current project status and tools used

### Hart House Singers

*Webmaster*

Toronto, ON

Oct 2016 – Apr 2017

Web maintenance and executive member for a student 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

## PERSONAL PROJECTS

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### E-Business Card (*Work in Progress*)

- Mobile app for people to easily exchange professional information (i.e. portfolios, contact info) through QR codes
- Built for Android systems using Firebase, with secure user authentication and persistent file storage

### Out of This World Cafe Ordering System

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

### HumIT (Shazam Copy)

- Submission for Hack The North. 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 **PostgreSQL** to match correct song info

### File Synchronization Program

- 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

## SKILLS & INTERESTS

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**Languages:** Python, Java, C , SQL, JavaScript, HTML/CSS

**Technologies/Frameworks:** Node.js, AngularJS, Flask, Docker, UNIX, Git, Visual Studio Code, JIRA

**Conceptual:** Design Patterns, OOP, MVC, REST, NoSQL, Relational Databases, Agile

**Interests:** Avid long-distance runner, Hiking, Camping, Playing Guitar, Reading Fantasy & Sci-fi