DAVID SHAN

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EDUCATION

University of Toronto   Toronto, ON
H.B.Sc Computer Science   Graduation: June 2020
- **Related Coursework:** Software Design, Systems Programming, Web Programming, Operating Systems, Databases

PROFESSIONAL EXPERIENCE

OpenText   Waterloo, ON
Software Developer Intern   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 **~20TB** 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
- 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 overall page loading time by 30%
- Performed QA and regression testing to investigate potential issues/bugs
- Mentored incoming interns to catch them up with the current project status and tools used, ensuring a smooth transition phase and on-boarding experience

Hart House Singers   Toronto, ON
Webmaster   Sep 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

PERSONAL PROJECTS

E-Business Card *(Work in Progress)*
- Mobile app for people to easily exchange professional information, such as resumes, portfolios, and contact details – all through scanning QR codes

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
- 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

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS
Technologies/Frameworks: Node.js, AngularJS, Flask, Docker, UNIX
Conceptual: Mobile Development, Design Patterns, MVC, NoSQL, Relational Databases, Agile
Interests: Avid long-distance runner, Hiking, Camping, Playing Guitar, Reading fantasy & sci-fi