# DAVID CHAU

## 3A MECHATRONICS ENGINEER

## SKILLS

### LANGUAGES

- C#
- CSS
- HTML
- MSSQL
- Typescript

### FRAMEWORKS

- Angular
- ASP.NET MVC
- WCF

### TOOLS

- Extensive Testing
- Firebase
- Git
- Qlikview

## EDUCATION

### UNIVERSITY OF WATERLOO

Candidate for BASc in Mechatronics Engineering
(Expected graduation in 2020)

84.05% cumulative

## CONTACT

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## WORK EXPERIENCE

### SOFTWARE DEVELOPER
(Sept '17 - Dec '17)

**Unitron Hearing Ltd - KITCHENER**

- Implemented and deployed a scalable microservice responsible for retrieving and modifying patient settings
- Optimized performance of web app by reconfiguring page routing, leading to a decrease in load times of up to 6x
- Improved user on-boarding experience with mobile app by integrating Firebase dynamic links into invitation emails
- Created a proof-of-concept web app to allow spouses to submit feedback based on performance of a patient's hearing aids
- Facilitated migration of web codebase from SVN to Git
- Relevant technologies: *Angular, ASP.NET MVC, C#, MSSQL, WCF*

### SOFTWARE QA ANALYST
(Jan '17 - Apr '17)

**Unitron Hearing Ltd - KITCHENER**

- Designed and implemented 111 detailed test scripts based on GUI recognition, improving the reliability and efficiency of test procedures
- Executed 135 test cases using black-box testing methodology on proprietary software applications, resulting in 11 major defects being discovered
- Relevant technologies: *Extensive Testing, Sikuli*

### INFORMATION TECHNOLOGY INTERN
(May '16 - Aug '16)

**Purolator Inc - MISSISSAUGA**

- Increased efficiency of monthly OTP customer reporting by 12% through the development of an automation process in Excel
- Enabled translation of Qlikview Dashboard content to PowerPoint based business reports, potentially saving up to 14 days per year of manual work
- Relevant technologies: *Excel VBA, Qlikview, VBScript*

## PROJECTS

### IN PROGRESS
(Dec '17 - Present)

**Smart Mirror**

- Created a Raspberry Pi powered mirror capable of displaying information such as the time, weather, and the news
- Plan to develop a companion web/mobile application which will connect to and interact with the mirror

### COMPLETE
(Sept '17 - Dec '17)

**Workspace**

- A desktop app used to configure, manage, and quick-launch application/file windows
- Integrated Firebase's authentication and real-time database services to save and retrieve user data
- Implemented desktop specific interactions and configured app packaging through Electron API
- Built using *Angular*, *Electron*, *Firebase*

### COMPLETE
(Feb '17 - Mar '17)

**davidchau.me**

- Developed a responsive and cross-browser compatible website to serve as a personal portfolio to potential employers
- Built using *Bootstrap*, *HTML/CSS*, *Javascript*, *Illustrator*