

# 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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 thechausenone

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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 speeds of up to 6x
- Improved user on-boarding experience with mobile app by integrating Firebase dynamic links into activation 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

- Executed 135 test cases using black-box testing methodology on proprietary software applications, resulting in 11 major defects being discovered
- Designed and implemented 111 detailed test scripts based on GUI recognition, improving the reliability and efficiency of test procedures
- 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 news
- Plan to develop a companion web/mobile application which will connect to and then interact with the mirror

#### IN PROGRESS

(Sept '17 - Present)

##### Workspace

- A cross platform desktop app to manage and quicklaunch application windows
- Integrated Firebase's authentication and real time database services to save and retrieve user data
- Designed and implemented UI with Illustrator and Angular Material, respectively
- Built using *Angular, Electron, Firebase*

#### COMPLETE

(Feb '17 - Mar '17)

##### Portfolio Site | davidchau.me

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