

DAVID HEW-WING

SOFTWARE ENGINEER

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Skills

LANGUAGES

Java
Python
Javascript (ES6)
Ruby
Typescript
Kotlin

TECHNOLOGIES

React.JS
Angular
AngularJS
HTML/CSS3/SASS
Git VC
Bash,
Linux
Typescript
Android
Docker
Kubernetes

CONCEPTS

Object Oriented
Programming
Data Structures and
Algorithms
SCRUM
UX and UI Design Principles
Mobile Development
Principles

Education

University of Ottawa
3rd Year Bachelor of Software
Engineering

Udemy - React.JS

Udemy - Android
Development

Udemy - Angular

Coursera - Algorithms -
Stanford

Employment

JSI Telecom

Software Engineer Intern

Kanata, Ontario
Sept. 2019 to Dec. 2019

- Currently working on the Oculus team which maintains and develops end-to-end web application system management platform and a warrant document management web application
- Improving code stability by squashing 8-12 bugs a sprint by reducing error faults by 10%
- Maintaining and managing dynamic dashboard components to show Nagios Monitoring metric
- Assisting developers to implement dashboard navigation system that allows user to navigate between different dashboard systems in an efficient way
- Wrote crucial validation for form fields like phone numbers from around the world, addresses and validation for a component that allows for uploading files

JSI Telecom

Software Engineer Intern

Kanata, Ontario
Jan. 2019 to May 2019

- Upgraded AngularJS pages to Angular 7 and improved performance by increasing the Apdex scores by 10% and reducing error rates.
- Designed and implemented Angular tab that manages user policies for a system management platform that restricts and allows certain users to run Rake tasks
- Wrote over 400 unit test cases in Angular to increase the coverage threshold to 85%
- Modified logging service to support OAuth tokens and API keys, which helped troubleshoot API authentication bugs
- Troubleshooted virtual machine and docker issues with other developers and helped maintain a proper VM development environment and wiki
- Worked with developers to implement a co-hosting strategy to allow developers to build Angular 7 pages and maintain AngularJS pages simultaneously

Canadian Food Inspection Agency

Mobile Developer Intern

Ottawa, ON
May 2018 to Aug. 2018

- Developed working prototype of allergen detection Android Application that detects the amount of allergen with a 95% success rate
- Implemented and maintained SCRUM practices for Android Development using JIRA, Confluence and Git Version Control
- Designed the system architecture for Android Application system for excellent scalability and performance
- Organized and led demonstration meetings and client discussions regarding the implementation and the design of the application
- Designed multiple high-fidelity wire frames in GravitDesigner and following proper UI/UX principles (Simplicity, Control, Acknowledgment, Visibility, etc.)

Projects

UltiManage

Current

- Designed and developed an Ultimate Frisbee Team Management Software
- Allows for play management, expense management, ride-sharing management, and timetabling
- Designed the wire-frames and layout for each page and identified functional and system requirements
- Currently building the UI in React.js, plan to build the back-end in Node with a SQL database, plan to build a mobile platform

Safechat

2019

- A machine learning platform that filters your message of any toxic language before sending it
- Used GoogleAutoML and a Google data set to help detect the bad language
- Assisted in leveraging Google Cloud to develop APIs that retrieved data from Google AutoML
- Wrote a chatroom application that allows for multiple users to communicate through a Socket.io connection and an Angular 7 front-end

Awards

Most Improved Player

2018

University of Ottawa Varsity Open Ultimate Frisbee

Youth Philanthropic Initiative \$5000 Grant Winner

2017

Gilda's Club