

# Alexander Mah



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<https://github.com/Mahster98>



<https://amahtech.dev>

## EDUCATION

### **Bachelor of Science in Software Engineering - University of Calgary, AB / 2016 - 2021**

- Graduated from the Schulich School of Engineering in April 2021 with a GPA of 3.5

### **Advanced High School Diploma - Rundle College Senior High School, Calgary, AB / 2016**

- Recognized as The Citizen of The Year Award with a scholarship. Awarded one student per year

## EXPERIENCE

### **IBM S.W.A.T. Developer – IBM WARDEN LAB, Markham, ON / May 2019 – April 2021**

- Developed and maintained CASAPP, a full stack application using Angular, Node.js, Swagger and Docker, with a Cloudant Database
- Tested the application using Mocha Unit Test cases in JavaScript
- Designed and implemented the Center for Advanced Studies website, using WebSphere Application Servers
- Designed and implemented IBM Good Tech Scholars webpage, which was deployed to IBM Cloud
- Presented and demoed workshop material showcasing different IBM Cloud and Machine learning technologies
- Utilized IBM enterprise design thinking to help clients strategize and develop their ideas

### **Learning Assistant - ELECTRICAL & COMPUTER ENGINEERING, University of Calgary, AB / Sep – Dec 2018**

- Assisted in one-on-one teaching on subjects related to data structures, client server applications, proper software design and code structures in Java
- Contributed in creating course content for incoming Software Engineering students

### **Undergraduate Research Assistant - University of Calgary, AB / Oct 2017 – Apr 2018**

- Improved student learning and assist teaching by creating an Android mobile app for "Students as co-designers for learning through collaborative game development"
- Partnered with creator and research team to assess requirements and its functionality

### **Summer Research Assistant - University of Calgary / Summer 2017**

- Recipient of Natural Sciences and Engineering Research Council Undergraduate Research Award

## OTHER EXPERIENCE

### **VP Finance - Electrical, Computer & Software Engineering Students' Society, Uni of Calgary, AB / May 2020 – April 2021**

- Elected by the students of the department to manage club expenses and manage cash flow.

### **Toastmaster's Mentor / May 2019 – August 2020**

- Mentored new hires to IBM in how to effectively give speeches and presentations
- Organized and led several Toastmaster Club meetings

### **IBM North American Intern Hackathon / July 2019**

- Elected First place Canadian winner of the NA wide hackathon event, involving 600 interns hacking in the categories of Blockchain, AI and Cybersecurity
- Created the Smart Food Saver (SFS), an intelligent platform for food service businesses. By utilizing IBM Cloud and Machine learning, SFS can assist in predicting production and therefore reduce food waste

### **President - SCHULICH IGNITE, University of Calgary, AB / May 2018 – July 2019**

- Mentored in an introductory programming program designed to inspire high school students to a career in technology
- Managed organization as well as oversee the content, recruiting and social media teams

### **VP Internal - Electrical, Computer & Software Engineering Students' Society, Uni of Calgary, AB / May 2018 – April 2019**

- Elected by the students of the department to manage club internal matters

### **International Summer Exchange - Hong Kong Polytechnic University / Summer 2018**

- Attend HKPU's cultural exchange program

## SKILLS

C, C++, Java, PHP, CSS, HTML, MySQL, JavaScript, Angular.js, Node.js, React, React Native, Python, Jupiter Notebook, Linux, bash, Bootstrap, Typescript

## PROJECTS

### **AmahTech.dev**

- Currently developing a portfolio website which can be found at <https://amahtech.dev>
- Used HTML, CSS, and JavaScript with a React framework deployed with Apache2.

### **Wildfire Detection Capstone Project**

- Designing and implementing a full stack application that alerts of wildfires using a mesh network
- Utilized React and Bootstrap to create the Frontend dashboard as well as socket.io for communication
- Built on Node.js for the Backend to talk to a non-relational MongoDB database
- Used React Native to build the Mobile application for Android
- Can be found at <https://engineeringdesignfair.ucalgary.ca/multidisciplinary/ant-blaze-iot-wildfire-detection/>

### **World Exploration**

- Designed and implemented a full stack application browser game where the goal was to find the correct location using only pictures provided by Google Street View
- Built using React, Node.js and Google Maps API
- Can be found at <https://www.world-exploration-deploy.ca/>