

# Ibrahim Irfan

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## EDUCATION

**University of Waterloo** - Bachelor's of Software Engineering

2017 - 2022

- 93% CGPA with 2 consecutive top decile and Dean's List awards.

## SKILLS

**Proficient:** C++, C, Python, Node.js, .NET Core, AWS, HTML, CSS

**Comfortable:** PHP, MySQL, AngularJS, DynamoDB

**Familiar:** Docker, MongoDB, Go, OpenCV, TensorFlow

## WORK EXPERIENCE

**Thomson Reuters** - Software Developer

May - Aug 2018

- Automated project infrastructure for user identity management using **AWS CodePipeline** to ensure end-to-end continuous integration.
- Reduced project build time by **over 40%** by parallelizing API and UI builds, saving over **6 minutes** per build.
- Fixed AWS ECS crash issue to reduce container CPU and memory usage by **70%+**.

**Geotab** - Software Developer

Jun - Aug 2017

- Led the development of an HR automation system which drastically reduced redundancy in the hiring process for one of the fastest growing companies in Canada.
- Significantly increased company efficiency through creating an accurate resume parser and automating emails and calendar events with **JavaScript**.

**ViceroyMedia** - Full-Stack Developer

Jun - Dec 2016

- Collaborated with a team to develop an Exam Network web app for the **University of Guelph**.
- Implemented a file system for course materials using **JavaScript**, including viewing, uploading, and downloading files.

## PROJECTS

**Palm Vein Authentication System**

Aug 2018

- Built a palm vein authentication system with over **93% accuracy** using **Python**, **OpenCV**, and **TensorFlow** using infrared LEDs and a RaspberryPi.
- Over 2.5k views on Hackster.io, to be featured in Make Magazine for **over 300k subscribers**.

**Exam Parser & Web Application**

Sep 2016

- Securely handled **over 200 user accounts** using **PHP** and **MySQL**, implementing industry standard database security measures (hashing, salting, etc).
- Developed a **Node.js** script to accurately parse PDF practice exams and output self-marking online forms to a web application, including a login system with admin access.

## AWARDS

**MasseyHacks III** - 3rd Overall & Best Hardware

Apr 2017

- Engineered a device for the blind which speaks out the word that a user hovers their finger over on a physical page of text using a **Raspberry Pi**, **Node.js**, **MongoDB**, and **Python**.

**Loran Scholarship** - Semi-Finalist

Nov 2016

- Recognized in the **top 8%** of applicants for Canada's most prestigious scholarship.