

# Rohan Gupta

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## Education

### University of Waterloo Computer Engineering

B.A.Sc Engineering  
Class of 2021

### White Oaks Secondary School

Earned the **International  
Baccalaureate** (IB) Diploma

## Languages

**Proficient:** HTML, CSS,  
Sass

**Working Knowledge:** C++,  
Java, Swift, Python,  
JavaScript, C, Assembly,  
MATLAB, Bash

**Familiar:** C#, Objective-C,  
VHDL

## Software

**OS:** Android, iOS, Windows,  
UNIX/Linux

**IDE:** Android Studio, Xcode,  
Visual Studio, Eclipse, Wing

**Architectures:** MVVM, MVC

**Libraries:** CocoaPods,  
Protobuf Buffers, Gcov,  
Selenium, JMeter, Pygame

**Tools:** Git, Arduino, Leap  
Motion, FBGA Design, CAD  
Tools

**Frameworks:** jQuery,  
Bootstrap, Knockout.js,  
Materialize

## Links



/rohangu98



/in/rohangu98/



http://rohangu.me/

## Work Experience

### Ford Motor Company (2018)

Software Infrastructure

- Delivered software solutions for cloud-connected in-vehicle modules working on CAN/Ethernet networks in a Linux environment.
- Designed, documented, and implemented new features for Application Lifecycle Management components in C++ using agile methodologies.
- Improved frameworks to enable complex applications to be deployed and executed in a vehicle, **decreasing app start-up time by over 50%**.

### Cineplex Entertainment (2018)

Application Software Developer

- Worked in team of **4 developers on 2 production-ready mobile applications** for the Cineplex Store.
- Wrote high-quality and maintainable code using Swift for iOS and Java for Android applications.
- Added CI to apps for running tests and automating builds simultaneously.
- Worked closely with a back-end developer to design and refine RESTful API - used by the entire Store team.

### Cineplex Entertainment (2017)

Software Developer

- Initially recruited as a Quality Assurance Analyst – **promoted in 3 weeks**.
- Developed the front-end of the Cineplex Store website redesign using HTML, CSS, Sass, and Javascript.
- Increased store revenue and web traffic by creating an aesthetically-pleasing and accessible website with approximately **300000 unique visitors per month**.

## Projects

### H.A.D.P – Java, Python (2018)

Built an Android keyboard at **HackTheNorth** that uses computer vision and sentiment analysis to advise users before posting controversial content online.

### Surgeon's Helping Hand – C++, HTML (2018)

Won **Best Healthcare Hack at DeltaHacks**. Created a robotic hand that mimics hand gestures recorded by Leap Motion. This sends the data to the web and then to an Arduino which controls servo motors connected to each finger.

### HumIt – Java, Javascript (2017)

Developed a windows application at **HackTheNorth**. Cortana was used to recognize a hummed tune. Fast Fourier Transform converted the hummed tune's frequencies into musical notes, which were then compared to musical notes from songs stored in a database.

### Gesture-Controlled 2048 – Java (2017)

Android application made in Android Studio that refines raw sensors on cellphones to recognize hand gestures and create a virtual object that reacts to gestures using pseudo physics and animations.