

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: Java, C++, HTML, CSS, Sass

Working Knowledge: Swift, Python, JavaScript, C, Assembly, Bash, MATLAB

Familiar: C#, VHDL, Objective-C

Software

OS: Android, iOS, Windows, macOS, UNIX/Linux, QNX

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

Tools: Git, Jenkins, JIRA, Confluence, VSTS, Arduino, Leap Motion, FBGA Design

Methodologies: MVVM, MVC, REST, OOP, Agile, Pair Programming, TDD

Frameworks: Bootstrap, Knockout.js, Materialize

Libraries: Protobuf Buffers, CocoaPods, jQuery, Gcov, GTest, Junit, Selenium

Links

 /rohang98

 /in/rohang98/

 http://rohang.me/

Experience

Ford Motor Company (2018)

Software Infrastructure

- Formed software solutions for cloud-connected in-vehicle modules working with CAN/Ethernet networks in a Linux and QNX environment.
- Implemented new features for Application Lifecycle Management (ALM) and Inter-Process Communication (IPC) components in C++.
- **Increased unit test coverage by 30%** in the ALM and IPC components.
- **Decreased bugs/code smells by 90%** in the ALM and IPC components.

Cineplex Entertainment (2018)

Application Software Developer

- Worked in a team of **4 developers on 2 production-ready mobile applications** for the Cineplex Store.
- Wrote high-quality, maintainable, and unit-tested code using Swift for iOS applications 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 APIs – used by the entire Cineplex Store development team.

Cineplex Entertainment (2017)

Software Developer

- Initially recruited as a Quality Assurance Analyst – **promoted in 3 weeks**.
- Redesigned the front-end of the Cineplex Store website using HTML, CSS, Sass, and Javascript, working in an agile environment.
- Increased store revenue and web traffic by creating an aesthetically-pleasing accessible website with approximately **300000 visitors/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. Leap Motion API sent data to the web and then to an Arduino, which controlled 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 refined raw sensors on cellphones to recognize hand gestures and create a virtual object that reacted to gestures using pseudo physics and animations.