Rohan Gupta

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Education _

University of Waterloo

Waterloo, ON, Canada

B.A.Sc in Computer Engineering

Projected April 2021

Experience.

NVIDIA

Santa Clara, CA, U.S.A

January 2020 - April 2020

Systems Software Intern

- Worked on many display-related features for the next generation Tegra SoCs using C, C++, and Bash.
- · Led design and implementation of three features; adding support for rotations/reflections, adding ability to allocate semaphore/notifier surfaces in system memory, and allocating custom designs on block linear surfaces with differing block heights, all by iterating on the design with the team, implementing the API, adding hardware support, and writing unit tests.
- Completed the entire bring-up of kernel-level display driver in pre-silicon environment by debugging and fixing all issues that arose.

Adobe

San Jose, CA, U.S.A

May 2019 - August 2019

Software Engineering Intern

- Worked on the UI and back-end for Pipeline an Apache Kafka-based, mission-critical messaging bus for asynchronous communication across Adobe solutions. Processes tens of billions of messages a day replicated in 13 different data centers.
- Developed front-end using React.js and back-end using Node.js, MongoDB, and Java.
- Improved Pipeline by adding multiple functionalities such as displaying events like CMRs and CSOs, surfacing on-boarding requests for Kafka topic creation on UI, and alerting for consumer group lag with Slack/PagerDuty integration.
- Saved approximately 4 hours of weekly developer on-call support time with successful implementation of features.

Ford Motor Company

Oakville, ON, Canada

Software Infrastructure

September 2018 - December 2018

- Created features for Application Lifecycle Management (ALM) and Inter-Process Communication (IPC) components using C++ in a Linux and QNX environment using libraries like Gcov and Protocol Buffers, and tools like Git and SonarQube.
- Increased unit test coverage by 30% and decreased bugs/code smells by 90% in the ALM and IPC components.

Cineplex Entertainment

Toronto, ON, Canada

January 2018 - April 2018

- Application Software Developer
- Worked in a team of 4 developers on 2 production-ready mobile applications for the Cineplex Store.
- Programmed UI/UX features using Swift on Xcode for iOS application and Java on Android Studio for Android application.
- Added continuous integration (CI) to apps for running tests and automating builds simultaneously.
- Worked closely with a back-end developer to design and refine RESTful APIs for the entire development team.

Cineplex Entertainment

Toronto, ON, Canada

May 2017 - August 2017

- Software Developer
- Redesigned front-end of the Cineplex Store website using HTML, CSS, Sass, and JavaScript.
- Increased store revenue and web traffic with redesign, attracting approximately 30000 unique visitors per month.
- Initially recruited as a Quality Assurance Analyst, promoted to Software Developer after 3 weeks of work.

Projects_

Surgeon's Helping Hand

C++, Java

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.

Gesture-Controlled 2048 Java

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.

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 actual song's music notes.

Hackers Against Dumb Posts

Python, Java

Social media assistant built at HackTheNorth that uses an Android keyboard, computer vision, and sentiment analysis to advise users before posting controversial content online.

Knowledge _

Languages: Java, C++, JavaScript, HTML, CSS, Sass, Swift, C, Python, MATLAB, SQL, Bash, VHDL, Assembly Tools: Git, Perforce, Jira, Confluence, Jenkins, VSTS, Apache Kafka, SonarQube, Docker, Kubernetes, Arduino, Leap Motion Frameworks/Databases: React.is, Node.is, Knockout.is, Bootstrap, Materialize, Redux, MongoDB, MySQL, PostgreSQL