# VARUN GUPTA

✉ varun.gupta@edu.uwaterloo.ca  🌐 vari.github.io  📞 647-978-0418  in varun-gupta-75se  ○ vari

## SKILLS

**Languages**
Swift
Python
C++
Java
JavaScript
HTML/CSS
Bash
SQL
Scala
Objective-C
VB.NET

**Mobile Dev**
iOS
Android

## EDUCATION

**University of Waterloo**
**Bachelor of Software Engineering**
**Sept 2015 - Apr 2020**
Cumulative GPA: 3.9 (89.1%).

## AWARDS

**Dean's Honour List**
**University of Waterloo**
**Aug 2019**
Achieved Dean's Honour List for the 1A, 1B, 2A, 3A, 3B, and 4A terms.

**Governor General's Bronze Medal**
**Governor General of Canada**
**Oct 2015**
Top grade 12 average (97.7%) in high school.

**Honour Roll in Canadian Computing Contest**
**University of Waterloo**
**Feb 2015**
Top 3% of contestants.

## EXPERIENCE

**Splunk | *Software Engineer***                        **Aug 2020 - Present**
**San Jose, California**
- Finalized and released the Splunk TV Companion iPad app for remote management of TV dashboards.
- Improved support for new visualizations and dashboard layouts in core SDKs used by the Splunk iOS and tvOS apps.

*Swift, SwiftUI, Python*

**Splunk | *Software Intern***                          **Sep 2019 - Dec 2019**
**San Jose, California**
- Architected a feature for the Splunk Apple TV app that enables remote management of displayed content and built a SwiftUI iPad app to manage the TVs.
- Created an iOS framework for inter-device communication that is resilient to server failures and rapid changes between client and server mode on each device.

*Swift, SwiftUI, Python, React Native*

**Nvidia | *Software Intern***                          **Jan 2019 - Apr 2019**
**Champaign, Illinois**
- Accelerated GPU health check speed by up to 3x and increased maintainability by refactoring active health checks in DCGM, a data center GPU monitoring tool.
- Increased GPU health check accuracy and reduced false negative rate by ignoring user specified benign errors in bespoke systems.

*C++, Python*

**SideFX Software | *Python Developer***                **May 2018 - Aug 2018**
**Toronto, Ontario**
- Reduced load times by up to 3x and data file sizes by up to 30x using lazy loading and Blosc compression in Houdini's Pose Library.
- Improved load balancing by using AWS EC2 to dynamically scale compute resources during peak load in HQueue, a compute farm job scheduler.

*Python, Qt5, C++*

**Intel | *Software Intern***                           **Sep 2017 - Dec 2017**
**Toronto, Ontario**
- Improved High-Performance Computing (HPC) farm compatibility for Quartus Design Space Explorer (DSE II) by adding Torque scheduler support.
- Proposed and implemented a project to add cloud computing support in DSE II, reducing setup time by up to 10x and improving UX.

*Python (Flask)*

**Accedo | *iOS Developer***                            **Jan 2017 - Apr 2017**
**Toronto, Ontario**
- Implemented paid content previews and live TV streaming for several Apple TV apps.

*Swift, RxSwift (ReactiveX)*

## PROJECTS

**FF Enhancer (bit.ly/2N0B33S)**                        **Dec 2017**
- A Chrome extension that enables advanced story filtering on www.fanfiction.net.

*JavaScript, HTML, CSS*