VARUN GUPTA

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SKILLS

Languages

Swift

C++

Pvthon

Java

JavaScript

HTML/CSS

Bash

SQL

Scala

Objective-C

VB.NET

Mobile Dev

iOS

Android

EDUCATION

University of Waterloo

Candidate for Bachelor of Software Engineering Sept 2015 - Apr 2020 Cumulative GPA: 3.9 (89.3%).

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 Intern*

San Jose, California

- Architected a feature for the Splunk Apple TV app that enables remote management of TVs and the ability to split an image or Splunk dashboard across multiple TVs.
- Built iPad app using SwiftUI that allows admins to remotely specify the dashboard and image content for registered 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

Champaign, Illinois

- Redesigned reporting framework to clearly highlight GPU errors for easier remediation in DCGM, a toolset for low-overhead data center GPU monitoring.
- Accelerated GPU health check speeds by up to 3x on faulty GPUs and increased maintainability by refactoring active health checks in DCGM.
- Increased GPU health check accuracy and reduced rate of false failures by ignoring user specified throttling errors in bespoke environments.

C++, Python

SideFX Software | *Python Developer*

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.
- Added support for custom resource tracking to HQueue, a job scheduler to run rendering jobs on a compute farm.
- Improved HQueue load balancing by using AWS EC2 for adding client machines on demand to reduce job turnaround times during peak load.

Python, Qt5, C++

Intel | *Software Intern*

Toronto, Ontario

- Improved High-Performance Computing (HPC) farm compatibility in Quartus Design Space Explorer (DSE II) by adding support for the Torque scheduler.
- Proposed and implemented a project to add support for cloud providers in DSE II, reducing setup time by up to 10x and improving UX.

Python (Flask), Perl

Accedo | *iOS Developer*

Toronto, Ontario

- Implemented free previews of paid content and live TV stream functionality for several Apple TV apps.
- Designed and implemented an app which allows an Apple Watch to provide playback controls for an Apple TV.

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

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lan 2017 - Apr 2017

Sep 2019 - Dec 2019

Jan 2019 - Apr 2019

May 2018 - Aug 2018

Sep 2017 - Dec 2017