

# Parv Mital

COMPUTER ENGINEERING · QUEEN'S UNIVERSITY

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## Education

### Queen's University

B.A.Sc. WITH PROFESSIONAL INTERNSHIP - COMPUTER ENGINEERING

- Awarded Dean's Scholar every year since 2013 - Present for academic excellence.
- Stand amongst the top 5 students in Computer Engineering since 2nd year.

Kingston, Canada

Sept. 2013 - April 2018

## Work Experience

### Regression Manager, Advanced Micro Devices

DISPLAY IP VERIFICATION TEAM

- Recreated the reports website using BootStrap, HTML/JS and CSS.
- Implemented new features in the website where the progress for all the tests are automatically charted for better tracking. This implementation saved over 90 hours of manual work each week and updated the progress chart every 3 minutes.
- Helped in writing a Ruby script which parallelized the report generation. This sped up the report generation process by over 4-5 times.
- Automated the report generation process using Ruby and JSON which saved at least 3-4 hours each day.
- Implemented automatic metric comparisons of the two latest reports. The results were emailed to the team members for further inspection.
- Implemented and improved Ruby/Python/CSH scripts that assisted in better testing/debugging of regressions.
- Initiated the implementation of a new database schema that will better suit the team needs and speed up the day-to-day processes.

Markham, Canada

May 2016 - July 2017

### Teaching Assistant, Queen's University

APSC 142 (INTRODUCTION TO COMPUTING)

- Created and maintained the attendance and marksheet for each tutorial.
- Attended to the students and answered their questions.
- Assisted the professor in creating and marking quizzes.
- Assisted the students by providing guidance for concepts of programming in C.

Kingston, Canada

Jan. 2015 - April 2015

## Projects

### ModBuddy

QHACKS (QUEEN'S UNIVERSITY)

- ModBuddy is a reddit moderator tool (chrome extension) that can detect and flag harassing and vulgar comments.
- The extension is built using JavaScript and the content filtering is done through a machine learning algorithm using Indico API.
- The neural network is trained by supplying a large amount of data in the form of words, phrases and sentences. The trained network has an accuracy of 0.993.
- Users are notified of the offensive content count as soon as they open a webpage, and the content is highlighted for them.
- The extension's testing website was hosted on Amazon Web Services.

Kingston, Canada

Feb. 2017

### QBnB (Hospitality Service)

CMPE 332 (DATABASE MANAGEMENT SYSTEMS)

- QBnB is an iPhone application developed that would help the Queen's Alumni enabling people to lease or rent short-term lodging.
- Privileged users can post their accommodation for rent on the application, along with standard user's ability to request a short-term lease.
- The back-end is written in MySQL and the front-end is written using PHP, Xcode and HTML.

Kingston, Canada

Jan. 2016 - March 2016

### MiniSRC Computer System

ELEC 374 (DIGITAL SYSTEMS ENGINEERING)

- Designed a 3-bus architecture miniSRC computer system in VHDL using Cyclone V FPGA and Altera Quartus II.
- The system is implemented with all the basic arithmetic, logical, branch, jump, load and store instructions.

Kingston, Canada

Jan. 2016 - March 2016

## Skills

TECHNICAL SKILLS

- Programming Languages: C++ (primary), Java, C Sharp, C, .NET
- Scripting Languages: MATLAB, Ruby (primary), Python, CSH, R
- Web Development Tools: PHP, HTML5, CSS, JavaScript, BootStrap, Ruby on Rails
- Database Models: MySQL (primary), PostgreSQL
- Environments / Operating Systems: Linux/Unix, Windows, Microsoft Visual Studio, MATLAB, BlueJ, NetBeans, Eclipse, CodeBlocks