Parv Mital
COMPUTER ENGINEERING · QUEEN'S UNIVERSITY

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Education

Queen's University   *Kingston, Canada*
B.A.Sc. WITH PROFESSIONAL INTERNSHIP - COMPUTER ENGINEERING   *Sept. 2013 - Apr. 2018*
- Awarded Dean's Scholar every year since 2013 - Present for academic excellence.
- Stand amongst the top 5 students in Computer Engineering since 2nd year.
- Areas of Study: Compilers, Computer Architecture, Data Structures, Algorithms, Data Mining, Discrete Mathematics, Neural Networks, Genetic Algorithms, Computer Networks, Machine Vision,

Work Experience

Regression Manager, Advanced Micro Devices   *Markham, Canada*
DISPLAY IP VERIFICATION TEAM   *May 2016 - July 2017*
- 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 9 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 4 hours a day for the team members.
- 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 would better suit the team needs and speed up the website and daily testing.

Teaching Assistant, Queen's University   *Kingston, Canada*
APSC 142 (INTRODUCTION TO COMPUTING)   *Jan. 2015 - Apr. 2015*
- 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.

Projects

Advanced Media Browser (AMBr)   *Kingston, Canada*
ELEC 490/498 CAPSTONE PROJECT   *Sept 2017 - Mar. 2018*
- AMBr is a Voice and Gesture Controlled TV set-top box.
- AMBr won first place for the Computer Engineering category at the February 2018 open house.
- It is a system that would help the users control their entertainment system with just voice commands and gestures.
- The software behind AMBr was implemented as a three-part solution.
- It consists of Windows software to control the Kinect, the Kodi media centre, and a python interface between the two.

ModBuddy   *Kingston, Canada*
QHACKS (QUEEN'S UNIVERSITY)   *Feb. 2017*
- 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.

Skills

TECHNICAL SKILLS
- Programming Languages: C++ (primary), Java, C Sharp, C, .NET
- Scripting Languages: Ruby, MATLAB, 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
- Repository Tools: Tortoise SVN, Perforce, Git