Parv Mital

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Work Experience

Software Development Engineer   **2018 – Present**
Pivotal/VMware

- Implemented a creative idea which ensured that the company met an important business requirement during a very tight and stressful deadline. Was recognized and awarded for flexibility, commitment and domain knowledge.
- Developed an open-source dependency scanner for all of Pivotal's 80+ projects which continuously scanned over 12,000 dependencies per day allowing for seamless software releases across the company.
- Improved the accuracy of dependency scanner by 60% by increasing scan coverage and reducing bugs.
- Saved 2 hours of manual work for the team per day, by leading a Ruby-on-Rails team project to revamp the user experience for customers
- Implemented RBAC for our product and provided direct visibility for the customers into the status of their requests while maintaining the data privacy and security required.
- Successfully led a Ruby & Python based collaboration project between Pivotal/VMware to ensure smooth transition for product teams in switching the Licensing process.
- Top contributor to LicenseFinder and dependency-labeler, open-source products used for identifying dependencies and their licenses within a GitHub repository and container image respectively.

Regression Manager   **May 2016 – June 2017**
Advanced Micro Devices

- Implemented features in the website to automatically chart the progress of all the tests, saving over 9 hours of manual work each week and provided updates in real time.
- Created Ruby scripts which parallelized the report generation resulting in a 75-85% increased efficiency.
- 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 latest reports that were automatically emailed to the corresponding team for inspection.
- Designed a new database schema to enhance the user experience and speed up the regression testing.

Skills

- Programming Languages: Ruby, Python, C++, Java, C#, C
- Web Development Tools: Ruby on Rails, BootStrap, HTML5, PHP, CSS, JavaScript
- Database Models: PostgreSQL, MySQL
- Scripting Languages: R, MATLAB

Education

Queen's University   **Sept 2013 – April 2018**
Bachelor of Applied Science in Computer Engineering

- Awarded Dean's Scholar every year since 2013 - 2018 for academic excellence.
- Ranked amongst the top few 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

Projects

Advanced Media Browser (AMBr)   **Sept 2017 - March 2018**

- AMBr won first place for the Computer Engineering category at the February 2018 open house.
- AMBr is a Voice and Gesture Controlled TV set-top box.
- Helps users control their entertainment system with just voice commands and gestures.
- Consists of Windows software to control the Kinect, Kodi media centre, and a python interface between the former two.

Modbuddy   **Feb 2018**

- ModBuddy is a Reddit moderator tool (chrome extension) that can detect and flag harassing and vulgar comments.
- 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; with an accuracy of 0.993.
- Users are notified of the offensive content count when they open a webpage, and the content is highlighted.
- The extension's testing website was hosted on Amazon Web Services.