Jay Patel

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EDUCATION

University of Colorado Boulder **Aug 2019 – May 2021**

Graduate student staff for course - Programming Workshop in C++

Master of Science in Computer Science, Current GPA – 3.9/4

Relevant Coursework: Analysis and Design of Algorithms, Object Oriented Analysis and Designing, Natural language processing, Machine Learning

Vellore Institute of Technology, Vellore, India **July 2014 - May 2018**

Bachelor's in Computer science & Engineering GPA: 8.94/10.00

Relevant Coursework: Data Structures, Algorithm Design and Analysis, Object-oriented Programming and Paradigm, Internet and web Programming, Database, Operating Systems, Software Project Management, Software Engineering, Agent based Intelligence System

TECHNICAL SKILLS

Languages: C++, C, java, python
Web Technologies: Angular 5, Bootstrap, JavaScript, HTML5, CSS3, PHP
Development IDEs: Visual studio, code blocks, Eclipse

Databases: MySQL
VCS: GitHub, ClearCase

INDUSTRY EXPERIENCE

Software Engineer at Philips Healthcare, Bangalore **July 2018 - June 2019**

https://www.usa.philips.com/healthcare/solutions/magnetic-resonance/imaging-systems

- Worked on development of driver software for next Generation Multi-Nuclei capable MRI machine, in C++.
- Designed and developed a real time magnetic event logging tool, consisting of serializer and de-serializer for logging the events in JSON format.
- Migrated the Ruby hardware testing code of RF signal receivers to C++.
- Improved the coding standard and complexity of existing Codebase with the help of TICS (Code Evaluating Tool) from 76 percent to 84 percent.
- Developed a utility to apply the band filter as per the simulated frequency generated by Oscillator for testing purpose. The aim of this utility was to get the proper signal strength and construct the better image.

- **Skills/Technology**: C++, UML diagrams, Software designing, VxWorks, Git, ClearCase, TFS

Software developer Intern at Philips Healthcare, Bangalore **Jan 2018 - July 2018**

- Developed a graph visualizer for the hardware configuration file, which showed connection between various sockets and plugs of different hardware of MRI machine. Integrated the C++ code with JavaScript d3 library.

ACADEMIC PROJECTS

Single page web application for food delivery (Object Oriented Designing and Analysis) **Oct 2019 – Nov 2019**

- The frontend was developed using ReactJS and backend services were handled with Java spring boot framework. Used Maven as project management tool. Basic goal of this project was to incorporate the various design patterns and write highly maintainable code.

Hotel Review sentimental analysis (Natural language processing) **Sep 2019**

- Classification of hotel review into positive and negative class using Logistic regression model and Neural Network, after scrapping and cleaning the data from online websites.

Real Time Lane Line detection on the road (Final Year Project) **Jan 2018 – April 2018**

- The detection of white lanes on the roads using OpenCV library was done along with the relative distance between the side and center of the lane was detected.
- With the help of the neural network, the lanes having different intensity of white and yellow colors were more accurately detected.