JAY PATEL

jrp9pte@virginia.edu | (757) 846-6502 | http://github.com/jrp9pte/ | http://www.linkedin.com/in/jaypatel-uva/

EDUCATION

University of Virginia, Charlottesville, VA   *August 2020 - May 2024*
Echols Scholar & Double Major in Computer Science & Biology (GPA: 3.3, CS GPA: 3.7)
CS-Coursework: Data Structures & Algorithms, Discrete Mathematics & Theory, Computer Systems & Organization, Python for Scientists & Engineers, (in-progress): Cyber Security, Software Testing, Software Development Essentials

SKILLS

- Programming Languages: Python, Java, C/C++, JavaScript, x86 Assembly, R
- Frameworks/Tools: HTML, CSS, React, Node JS, Firebase, Git, Agile , Nano, LLDB

EXPERIENCE

Summit Retailers LLC, Hampton, VA
Remote Technology Intern   *January 2023 - Present*
- Setting up devices such as computers and security systems, maintaining and troubleshooting networks, software and hardware to optimize and speedup daily operations of 3 branches
- Developing an end to end plan for an e-commerce platform to help the organization increase its online presence and customer reach
- Learning frameworks for developing a user-centered website alongside data-driven promotional marketing strategies to track the success of the e-commerce platform

Hampton Fire Rescue (NHVFC), Hampton, VA
Emergency Medical Technician   *September 2022 - Present*
- Assess conditions and determine treatment course in collaboration with colleagues, police and fire departments for 200+ patients
- Document patient care by completing reports and logs with attention to details for 10+ calls a shift, using the data to track patient care and to identify trends

Yakisich Lab, Hampton University , Hampton, VA
Research Assistant   *August 2019 - March 2020*
- Designed and executed systematic processes for data collection/validation across 3 prostate cancer cell lines
- Performed statistical analysis for 20+ data sets including regression on large scale data sets in M.S Excel
- Collaborated with team of co-researchers to craft and publish sections of the project's final research paper

PROJECTS

Educator Hub - React Dashboard for School Administrators   *Summer 2023*
- Designed a React and CRUD (Create, Read, Update, Delete) based dashboard for streamlining school administration tasks, incorporating Firebase database and Github for feature-based code branching
- Implemented features including student enrollment management, grade tracking, event organization, user authentication
- Created a seamless and intuitive user experience using Material UI following accessibility guidelines and security principles

Socket Chat - Client/Server Network Programming Application in C language   *Spring 2023*
- Developed a command-line 2-party chat program, implementing server-client communication model to enable real-time messaging
- Established TCP/IP server-client connections using socket functions and system calls with poll functions for I/O handling
- Utilized strong command-line proficiency, incorporating error handling and buffer overflow prevention mechanisms

Astral Projector - Python Neural Network Classifier   *Fall 2022*
- Performed wrangling, visualization and exploratory analysis on multidimensional dataset to highlight and understand trends
- Trained a neural network to classify stars and galaxies performing Gaussian fitting
- Tuned hyperparameters and acquired the optimal set of parameters to achieve predictions with 95% accuracy

Meme Magic - Java Memes Generator with User Feed   *Spring 2021*
- Designed and developed a Java Meme generator from scratch with custom GUI and full coverage JUnit Testing with 100+ tests
- Coded functionality to upload images and add custom captions
- Created a customizable feed allowing users rate to rate the the uploaded content and sort content based on rating