JAY PATEL

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EDUCATION

University of Virginia, Charlottesville, VA   *August 2020 - May 2025*
Computer Science & Biology (Computer Science Major GPA: 3.7, Cumulative GPA: 3.3)
<u>CS-Coursework</u>: Data Structures & Algorithms, Discrete Mathematics & Theory, Computer Systems & Organization, Python for Scientists & Engineers, (in-progress): Cyber Security, Software Testing, Software Development Essentials
<u>Activities</u>: Echols Scholars at UVA (top 5% of incoming class), UVA Awaaz Club (Cofounder), Indian Student Association, Queer Student Union

SKILLS

- <u>Programming Languages</u>: Python, Java, C/C++, JavaScript, x86 Assembly, R, TypeScript, C#
- <u>Frameworks/Tools</u>: HTML, CSS, React, Node JS, Express JS, Azure, Firebase, Git, Agile, Nano, LLDB,

EXPERIENCE

Warburg Pincus LLC, New York, NY
Software Developer Intern   *June 2023 - August 2023*
- Contributed TypeScript and C# code to expand the codebase of the company's $109B portfolio management web application
- Revamped user experience for more than 5000 global users and secured return internship offer for Winter 2023
- Improved application reliability and responsiveness by implementing full-stack solutions for feature requests and delivering comprehensive, rigorously-tested bug resolutions.
- Refactored React components and application modules to align with improved design principles and source of truth consolidation
- Quickly mastered in-house Azure tools, collaborating with agile team of 8 developers for timely delivery of high-quality code

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 with attention to detail for 10+ calls a shift, using data to track patient care and 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

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