

# JAY PATEL

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## EDUCATION

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University of Virginia, Charlottesville, VA

August 2020 - May 2025

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

Activities: UVA Awaaz Club (Cofounder), Echolas Scholars at UVA, Indian Student Association, Queer Student Union

## SKILLS

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

## EXPERIENCE

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Warburg Pincus LLC, New York, NY

Software Developer Intern

June 2023 - August 2023

- Contributed TypeScript and C# code for expansion of company's \$109 billion investment portfolio management application
- Increased application reliability and responsiveness by implementing bug fixes and full-stack solutions that redesigned experience for 5000+ global users
- Refactored React components and integrated application modules to fit better design principles with consolidated source of truth
- Learned Azure based in-house tools, collaborating with a team of developers and QA engineers to timely deliver 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

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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