

Nikhil Polepalli

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EDUCATION

Vanderbilt University | Nashville, TN

Expected Graduation May 2024

B.A. - Computer Science, Economics

Cumulative GPA: 3.85

Coursework: Operating Systems, Artificial Intelligence, Cyber Security, Algorithms, Data Structures, Software Design, Discrete Mathematics, Digital Systems, Multivariable Calculus, Programming Languages, Software Engineering

SKILLS & TECHNICAL TOOLS

Languages: Java, Python, JavaScript, C++, HTML/CSS, GO, React, SQL

Technologies: Git, GitHub, AWS, Vercel, Bootstrap, Docker, DynamoDB, Jenkins, Bogie, Django, Firebase

EXPERIENCE

Software Engineering Intern | Capital One

June 2023 - Aug 2023

- Implemented a scalable backend lambda function in GO that decreased response time by 50% and efficiently processed, handled, and stored data on AWS DynamoDB for easy API call access
- Developed and tested three separate API endpoints with 90% code coverage to query DynamoDB
- Designed and Built a user-interface using React that allows users to easily filter through configurations and visualize configuration differences
- Fully integrated back-end service with front-end service and deployed application to quality assurance

Software Engineering Intern | Northrop Grumman

June 2022 - Aug 2022

- Successfully developed and deployed an algorithm to minimize data collection, data extraction, data analysis and data staging times by automating several python scripts to work in conjunction with one another
- Worked in team of 10 using Scrum/Agile principles

Software Engineering Intern and Tutor | Digital Horizons LLC

July 2020 - Aug 2021

- Optimized the company's technology stack on the back-end to optimize run-time and more efficiently reach and help prospective students

PROJECTS

VandyPool

- Full stack rideshare and carpool web-application to help Vanderbilt students save money on rides to the airport
- Prototyped, Developed and Deployed React user interface and several API endpoints with the Django framework to store passenger and driver information
- Designed SQL database schema to store all user information, flight information, and car information
- Integrated Jest and Playwright to customize unit and functional testing suite

Credit Card Cash Back Optimizer

- Independently designed, developed and deployed a full-stack web application developed using ReactJS, CSS, and GO
- Allows user to input and store the different credit cards they own along with their respective cash back values
- For each transaction, the application will show the user which card to use in order to maximize cash back

Low Cost Tachycardia Diagnostic Tool

- Developed using Arduino microcontrollers and Arduino IDE along with heart rate monitors and a bluetooth module
- Python script reads user heart rate values and detects when there has been a significant fluctuation, a notification is then sent to the user, telling them to take it easy and monitor their activities
- Awarded INTEL excellence in computer science at Kentucky State Science Fair in 2019