

# Nikhil Polepalli

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## EDUCATION

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**Vanderbilt University | Nashville, TN**

Expected Graduation May 2024

*Bachelors - 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

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

**Technologies:** Git, GitHub, BitBucket, AWS, Vercel, Docker, DynamoDB, Jenkins, Django, Firebase, React, .NET, Vue

## EXPERIENCE

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**Part-time Software Engineer | Chalkline Sports**

*January 2024 - Present*

- Spearheaded a project to optimize image asset creation, eliminating the need for manual ad-unit image development
- Redefined the proprietary “Bettor Analytics” software to align with client needs closely by building several pages to store, access, and display critical client and player information
- Reorganized SQL database and bolstered all .NET API endpoints - decreasing response times by 30%

**Software Engineering Intern | Capital One**

*June 2023 - Aug 2023*

- Implemented a scalable AWS lambda function that decreased response times by 33% and efficiently processed, handled, and stored data on DynamoDB for easy API call access
- Developed and tested three separate API endpoints in GO with 90% code coverage to query DynamoDB
- Used Figma to prototype and React to fully build out user interface allowing users to easily filter through thousands of configurations and visualize each configuration difference
- Integrated back-end service with front-end service and deployed full-stack application to QA with Jenkins

**Software Engineering Intern | Northrop Grumman**

*June 2022 - Aug 2022*

- Wrote a Python script to minimize data collection, data extraction, data analysis, and data staging times by automating several Python scripts to work in conjunction with one another
- Deployed script to production and eliminated all manual labor previously used in this data analysis process

## PROJECTS

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**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 retrieve 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, achieving 90% code coverage

**Credit Card Cash Back Optimizer**

- Independently designed and deployed a full-stack web application using ReactJS, CSS, and Firebase
- Allows user to input and store the different credit cards they own to view the cash-back attained for each transaction
- Implemented GoogleAuth to authenticate user emails and streamline the log-in/registration process

**Low-Cost Tachycardia Diagnostic Tool**

- Developed using Arduino microcontrollers and Arduino IDE along with heart rate monitors and Bluetooth modules
- Awarded INTEL excellence in computer science at the Kentucky State Science Fair in 2019