

# Nikhil Polepalli

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## EDUCATION

**Vanderbilt University | Nashville, TN**

**August 2020 - 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

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

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

## EXPERIENCE

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

**January 2024 - August 2024**

- 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%
- Integrated “post bet” conversion with Kambi to automatically populate user bets in the client’s bet slip - resulting in a 15% increase in user engagement and the signing of 4 new high-profile clients

**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

**Rate My Dorm**

- Designed and prototyped user-centric interfaces on Figma, ensuring intuitive navigation and consistent branding across all pages, later fully built out using React, contributing to a user base of 300
- Developed and integrated RESTful API endpoints for secure data storage and retrieval, supporting the platform's scalability and user growth
- Implemented Google authentication to restrict access to Vanderbilt students, ensuring data privacy and site security

**VandyPool**

- 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

**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