

# Tinu Vanapamula

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## EDUCATION

### University of Maryland, College Park

*B.S. Computer Science & Economics, Double Major, Minor in Business Analytics*  
*Dean's Scholar, BSE Scholars Program*

College Park, MD

*Graduating May 2027*

*GPA: 4.00*

## TECHNICAL SKILLS

**Languages:** Python, Typescript/Javascript, C/C++, Java, SQL, HTML/CSS, MATLAB, OCaml, Rust, R, Bash

**Frameworks:** React/Next.js, Node.js, Django, FastAPI, Flask, Spring Boot, TailwindCSS, REST, GraphQL

**Developer Tools:** Git, Docker, Linux/Unix, Amazon Web Services, Firebase, VS Code

**Libraries:** pandas, numpy, matplotlib, scikit-learn, tensorflow, pytorch, framer-motion, three.js, chart.js

## EXPERIENCE

### Software Engineer for AI Training

May 2025 – Aug 2025

*Outlier AI*

*Remote*

- Enhanced the quality and accuracy of AI-generated code by rigorously debugging and analyzing edge cases
- Rapidly prototyped production-grade software to build supervised training datasets of LLMs for SWE tasks
- Passed rigorous assessments to become certified in React, Python, Docker, Git, HTML, and Mathematics

### Software Development Engineer Intern

Jun 2022 - Aug 2022

*International Software Systems Inc.*

*Greenbelt, MD*

- Designed & built tailored full-stack web applications using Django, React.js, GraphQL, Postgres, and Hasura
- Developed custom CI/CD pipelines to deploy applications to cloud services with AWS EC2, RDS, Elastic Beanstalk, and on-site docker-based containerized clusters using custom DockerFiles

### Machine Learning Research Intern

Jun 2023 - Aug 2023

*University of Maryland MIND Lab*

*College Park, MD*

- Produced **25+ respiratory samples** through a tailor-made controlled experiment using SPIRE health tags
- Trained and optimized deep multi-layered neural networks to accurately classify respiratory events
- Improved collection accuracy by 50%** by developing custom scripts to reduce noise & improve labeling

### Part-Time Systems Engineer

Aug 2023 - May 2025

*National Institutes of Health (Contract through IntraNav)*

*Bethesda, MD*

- Reduced downtime for **100+ RTLS IoT Nodes** by solving infrastructure issues, enhancing system reliability
- Secured complex architecture of MQTT nodes, redundant Linux servers, and containerized architecture
- Facilitated cross-team collaboration with the end-client, off-site engineering team, and NIH IT Department

## ACHIEVEMENTS & PROJECTS

**Multiple Awards at Hackathons/App Challenges** (Best UI Hack @ Mocohacks 2021, Best in Show @ Codeday DC 2022, Public Favorite @ poolesville\_hacks 2 2023, Congressional App Challenge Winner in MD-03 2019 & 2020)

### Grade Melon 🍌 | *React (Next.js), Node.js, TailwindCSS, Framer Motion, Chart.js, PWA* Oct 2022 - May 2024

- Reverse-engineered our school's grades portal for a better UI/UX and calculated/optimized grade features
- Received 850k+ unique visitors in 2023** with only a 20% bounce rate

### MBHS Website 🌐 | *React (Next.js), Node.js, Docker, TailwindCSS, Strapi CMS, Bash* Nov 2022 - May 2024

- Spearheaded the development and design efforts, including the UI/UX, infrastructure, and CI/CD Pipelines
- Coordinated with school administration and IT Head for detailed requirements and constraints of the project
- Received 150k+ unique visitors in 2024**

### March Madness Leaderboard 🏆 | *React (Next.js), FastAPI, Docker, pandas, scikit-learn* March 2024 - May 2024

- Developed a grading tool for custom trained linear regression models to evaluate their performance in real-time
- Used pandas and scikit-learn and process the data and models and built a custom endpoint with FastAPI
- Built a custom leaderboard frontend with ability to view all log losses for all matchups, as well as filtering