

Nitin Enjamuri

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EDUCATION

University of Maryland, College Park

College Park, MD

B.S. in Computer Science, Minor in General Business | GPA: 3.66/4.0

Graduation: Dec 2026

- **Honors/Awards:** UMD CS Honors, Dean's List (2024, Spring 2025), 1st Place – OMBA Fellowship Case
- **Core CS:** Database Design, Computer and Network Security, Org. of Prog. Lang., Algorithms, Research, OOP
- **Quantitative:** Linear Algebra, Calculus II, Marketing, Data Science, Accounting, Financial Management
- **Certifications:** DevOps Foundations: DevSecOps (Oct 2025), DSML: Making Data-Driven Decisions (Apr 2025)

PROFESSIONAL EXPERIENCE

Fannie Mae | Python, Flask, Angular, AWS (S3, DynamoDB, SNS), Splunk, Calypso

Reston, VA

Software Engineering Intern, Capital Markets Technology

Jun 2026 – Aug 2026

- Built Simulator, a Flask service integrated into Fannie Mae's event-driven collateral data pipeline (SNS, SQS, MQ) to drive test execution across capital markets workstreams including pricing, FICC, and intraday trades.
- Designed DILO (Day-in-the-Life-of) testing lifecycle management processing 1,000+ Calypso trade files per run with real-time status visibility and artifact drill-down, replacing siloed analyst scripts with a unified S3-persisted, JWT-secured REST API and reducing testing duration by 35%.

ENMORO | FastAPI, Postgres, Docker, AWS, Bedrock, OpenSearch, S3, Llama/Titan

Exton, PA

Software Engineer & Technical PM

May 2025 – Aug 2025

- Built and deployed FastAPI/Postgres backends across three production-ready MVPs, containerized with Docker for reliable, scalable, and fault-tolerant performance throughout iterative development cycles.
- Integrated OAuth2 auth, CI/CD pipelines, and an AWS Bedrock RAG chatbot (S3, OpenSearch, Llama/Titan) for AI-powered internal employee support, reducing production errors by 40% across deployments.

PROJECTS

EscheaGuard | Python, Streamlit, LangGraph

Apr 2025

- Built EscheaGuard, a five-agent LangGraph compliance platform that unifies cross-channel bank activity, applies state dormancy law across 10 states, and generates budget-constrained outreach plans per account.
- Designed entity resolution using Jaro-Winkler fuzzy matching and a human-in-the-loop review gate to link customer activity across core banking, online banking, mobile, call center, and branch visit records.

Buydown Calculator | HTML, CSS, JavaScript

Mar 2025 – Present

- Develop and deploy a client-facing loan analysis tool applying TVM, amortization, and refinance models; 1.5K+ monthly visits and 36K+ total hits, contributing to new client acquisitions weekly.

LEADERSHIP & RESEARCH

TerpLabs @ UMD | Python, MongoDB

College Park, MD

Technical Project Manager

Oct 2025 – Present

- Direct a team of developers building a campus nutrition app with Python and MongoDB for 30K+ students.
- Coordinate Agile Git workflows and integration testing across a multi-developer team to stabilize releases and maintain code quality ahead of the campus-wide demo for 30K+ students.

University of Maryland – Prof. Haizhao Yang's Lab

College Park, MD

Undergraduate Researcher

Jun 2026 – Present

- Researching agentic AI applied to computational mathematics under Prof. Haizhao Yang (Math & CS), collaborating day-to-day with PhD student Youran Sun on the OptimAI2026 Claude Code plugin.
- Building multi-agent orchestration systems for hard optimization problems (MILP, NLP, MINLP) using conductor, solver, and critic agent roles with structured state management and tool-use in Python.

SKILLS

Languages & Libraries: AVR-Assembly, C, Java, JavaScript, Node.js, NumPy, OCaml, Pandas, Python, Rust, SQL
Frameworks & Tools: Angular, Docker, FastAPI, Flask, Git, GitLab, MongoDB, Postgres, Postman, React, Splunk
Core Competencies: CI/CD Pipelines, Claude Code, Cloud Deployment, Data Modeling, Data Structures & Algorithms, Multithreading, Object-Oriented Design, Product Management, RESTful APIs, SDLC