Asritha Pallaki

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Education

The University of Georgia — Athens, GA
B.S. in Computer Science, Business Minor; GPA: 3.4/4.00 — *Expected May 2028*

- Zell Miller Scholarship (Full Tuition) | **Coursework:** Data Structures, Algorithms, OOP, Discrete Math

Technical Skills

Languages: Python, Java, C++, C#, C, JavaScript, SQL
Backend & Infra: FastAPI, ASP.NET Core, Spring Boot, Node.js, Redis, RabbitMQ, Docker, GitHub Actions
AI/ML: PyTorch, scikit-learn, OpenCV, CLIP, RAG / Semantic Search, pandas, NumPy
Frontend & Data: React, PostgreSQL, pgvector, Supabase

Experience

Fiserv — Jun 2026 – Aug 2026
Application Development Intern — *Remote*

- Fixed a production bill-pay email-validation bug blocking ∼**4,000 members** from enrolling; added **126 unit tests**
- Built a BillPay onboarding service in **ASP.NET Core** (Web API + Razor Pages) with credit-card masking, **Redis** caching, and **RabbitMQ** messaging, plus validation, logging, and standardized HTTP errors
- Shipped scheduled messaging on a BackgroundService and deployed to **Pivotal Cloud Foundry**, debugging routing, CORS, and 502 errors from logs to a passing health check

AI @ University of Georgia — Mar 2025 – Sep 2025
Software Engineer Intern — *Athens, GA*

- Built a full-stack **RAG** application (**FastAPI, React**) letting students chat with **800+ campus documents**
- Engineered the retrieval layer: document indexing, metadata filtering, and **semantic search** over **PostgreSQL**
- Built **CI/CD** with GitHub Actions to production Supabase, shipping the tool for campus-wide student use

Prithvy (Environmental Research Lab) — Jun 2025 – Aug 2025
ML Data Engineer Intern — *Athens, GA*

- Built a low-cost water-quality sensor system deployed in a live campus lake, cutting dissolved-oxygen monitoring cost ∼**80%** versus commercial lab testing
- Built NumPy/pandas pipelines feeding a **scikit-learn** dissolved-oxygen prediction model served via REST APIs
- Co-authoring a forthcoming publication on the deployment's water-quality findings

Upgrade AI — Jan 2025 – Mar 2025
Junior Engineer Intern — *Remote*

- Built FastAPI features serving ML outputs to an ad-tech platform, cutting ad-delivery latency ∼**30%** under load

Projects

AI Wardrobe Stylist | *Python, FastAPI, CLIP, PostgreSQL, pgvector, React, Docker* — In Progress

- Building an AI wardrobe app that auto-tags clothing by category, color, and style via **CLIP** zero-shot
- Designing "find similar pieces" visual search over image embeddings in **pgvector** with **HNSW** indexing
- Developing an outfit recommender ranked by occasion and live weather; launching to UGA fashion orgs

IRROPS Crew Recovery Engine | *Python, OR-Tools, XGBoost, FastAPI, React, Docker* — GitHub

- Built a full-stack simulator of airline crew recovery after an ATL ground stop (186 flights, 61 crews)
- Designed an hourly **OR-Tools CP-SAT** optimizer that cut flight cancellations **44%** vs. no reassignment
- Trained an **XGBoost** delay model (AUC 0.67 vs. 0.60 baseline); served via **FastAPI** to a React dashboard

Leadership

Treasurer, Girls.code() @ UGA | Secured Google sponsorship for 100+ person hackathons — Aug 2024 – Present
Kappa Theta Pi (CS Fraternity) | SWE Committee: build frontend for the chapter website — Mar 2025 – Present