

# HEMA SRI PUPPALA

Dallas, TX | puppalahemasri23@gmail.com | GitHub: <https://github.com/HemaSriPuppala> | LinkedIn: <https://www.linkedin.com/in/hema-sri-puppala/> | Portfolio: [link]

## SUMMARY

M.S. Computer Science with expertise in full-stack development, leveraging Python/Django and React to build and deploy scalable, AI-enabled web applications. Specializing in back-end architecture, secure coding practices (OWASP), and CI/CD pipelines on Azure/AWS.

## TECHNICAL SKILLS

Languages :	Python, JavaScript/TypeScript, SQL, Java ,C++
Programming :	Django/FastAPI, Node.js/Express, REST APIs, JWT/Auth, ORM, React, HTML, CSS, Next.js
Databases :	PostgreSQL, SQLite, Redis
AI/LLM :	OpenAI API/LLMs, RAG, embeddings, prompt engineering
Security :	OWASP Top 10, input validation, auth/session security, secure headers, SCA
Cloud/DevOps :	Docker, GitHub Actions, Azure/AWS deployments, Linux basics

## PROJECTS

### FinAI — AI-Powered Financial Analysis & Portfolio Insights (Full-Stack) — <https://github.com/FinaiWorld>

- Built a Django-based platform for portfolio tracking and stock analysis using REST APIs, PostgreSQL, and modular service layers.
- Integrated market data and technical/fundamental indicators via third-party financial APIs; generated AI summaries, sentiment, and risk insights using LLM calls.
- Containerized with Docker and deployed on Azure; configured environment-based secrets, logging, and error handling for production use.

### Tudu — AI Smart Task Planner & Shared Groups (React + Django) — <https://github.com/TuduSmartPlanner>

- Developed a task planning app with a React frontend and Django backend featuring JWT authentication, CRUD tasks, and calendar-based views.
- Implemented AI-assisted task rewriting and planning suggestions; added group creation, member invites, shared task assignment, and acceptance workflows.
- Integrated location workflows (Google Maps directions links) and optimized API usage with caching and structured responses; CI via GitHub Actions.

### Atharva — AI + IoT Smart Farming & Farmer Marketplace — <https://github.com/Atharva-AgriTech>

- Designed an agri-tech platform blueprint combining crop recommendations, IoT-driven farm monitoring, and a farmer-to-consumer marketplace model.
- Defined core modules: sensor data ingestion, advisory alerts, marketplace workflows, and analytics dashboards; planned freemium + hardware subscription monetization.
- Produced technical and product documentation (architecture, user flows, data model) to support pilot rollout and partner onboarding.

## EXPERIENCE

### Software Security Intern — Toyamo Automation, Bangalore | 11/2022 – 10/2023

- Assisted in strengthening security of web applications by applying OWASP-aligned secure coding practices, including input validation, secure error handling, and security-focused logging.
- Supported remediation of common vulnerabilities (IDOR, XSS, injection) by updating validation, authorization checks, and safe database query patterns under mentor review.
- Ran dependency vulnerability checks (SCA) and helped maintain security checks in CI pipelines (GitHub Actions) to reduce third-party risk.
- Worked with developers through Git-based workflows, code reviews, and issue tracking to document findings and deliver security fixes.

## **EDUCATION**

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**M.S. in Computer Science**, The University of Texas at Arlington — 12/2025

Relevant coursework: Distributed Systems, Database Systems, Cloud Computing, Information Security, Machine Learning, Software Engineering.

**B.S. in Computer Science**, Sri Vishnu Engineering College — 05/2023

Relevant coursework: Data Structures, Algorithms, Operating Systems, Computer Networks, DBMS.