HEMA SRI PUPPALA

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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

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.