

DHEERAJ PINJALA

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EDUCATION

Northeastern University (Khoury College of Computer Sciences)

Master of Science in Computer Science

Boston, Massachusetts

Sep'25 - Present

Courses: Programming Design Paradigm (Java), Web Development, Algorithms, Artificial Intelligence

Sri Sivasubramaniya Nadar College of Engineering (SSN) | GPA: 3.53/4.0

Bachelor of Technology in Information Technology

Chennai, India

Aug'19 - May'23

Courses: Data Structures & Algorithms in C++, Software Engineering, Machine Learning, Big Data Engineering, DBMS

TECHNICAL SKILLS

Software Development: Python, C/C++, Java, React, Next.js, FastAPI, TypeScript, JavaScript, Bash, Waterfall, Agile Methodology, Git

Cloud & DevOps: Kubernetes, Docker, OpenStack, Linux (RHEL), CI/CD, Azure DevOps, Airflow

AI & Other Technologies: Prompt Engineering, Retrieval-Augmented Generation (RAG), Agentic AI, Langchain, ChromaDB, MySQL

EXPERIENCE

Hewlett Packard Enterprise (HPE) - Aruba Networking

Software Engineer

Bengaluru, India

Sep'23 - Aug'25

- Directed the design and development of a centralized network dashboard (React/FastAPI), collaborating with Product and NOC teams to translate operational requirements into features, cutting average incident resolution time by 20 minutes
- Deployed 10+ microservices using Docker and Kubernetes on OpenStack VMs, leveraging CI/CD pipelines to automate deployments, reducing deployment time by 60%
- Eliminated \$300K in annual resource waste by optimizing resource allocation in production using Python and time-series forecasting
- Developed scalable APIs and React Components to integrate AI/ML models as microservices onto network data infrastructure, generating alerts and recommendations for network health, device performance, and user experience
- Established comprehensive documentation standards and conducted code reviews for all production deployments, ensuring adherence to platform security and performance benchmarks
- Coordinated 15+ annual tech talks and quizzes for HPE's ACE Employee Connect program, engaging 500+ employees, and earned a 95% satisfaction rate for mentorship in technical skill development

Hewlett Packard Enterprise (HPE) - Global Technology Center

Software Engineer Intern

Bengaluru, India

Mar'23 - Aug'23

- Collaborated on design reviews and deployment planning sessions, quickly mastering complex system architecture to inform and execute validation tasks
- Created Bash automation scripts that reduced manual configuration time by 30% for network function setup and validation
- Strengthened internal QA by executing feature test plans and diagnosing environment-specific bugs across deployment stages, stabilizing the release pipeline

SSN Coding Club

AI/ML Core Member

Chennai, India

Jun'22 - Feb'23

- Mentored 50+ students on machine learning and data science techniques using relevant frameworks and libraries
- Organized 10+ AI/ML workshops and hackathons, increasing student participation by 150%, resulting in 5+ coding competition wins

PROJECTS

Multi-Agent AI Researcher System | Next.js, Typescript, React, AgenticAI, RAG

- Built a multi-agent AI system with a central orchestrator coordinating 5+ specialized agents and integrating 6+ academic APIs
- Reduced research synthesis time by 75% by automating analysis, generating literature reviews, and providing a Q&A chat interface

Indian LegalGPT | React (Vite), FastAPI, Groq, Python, ChromaDB, Mistral-7B

- Created a multilingual legal assistant (React/FastAPI) which provides accurate custom real-time Hindi/English legal query support
- Increased user engagement by 40% by implementing a low-latency Groq inference pipeline and RAG with ChromaDB as vector store for rapid, precise responses

DeFi Security Suite | Python, Web3.py, LLAMA2, Slither

- Designed a LLAMA2 platform detecting smart contract vulnerabilities and assessing Ethereum transaction risks across 500+ contracts
- Integrated Slither and Web3 monitoring to generate security reports with automated anomaly detection

Credit Score Analysis using Machine Learning | Python, Google Colab, TensorFlow, Seaborn

- Developed a multi-class credit risk model classifying high- and low-risk creditors, achieving 98.6% prediction accuracy by leveraging stacked ensemble techniques and addressing class imbalance