

DHIRAN KUMAR REDDY P

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PROFESSIONAL SUMMARY

Backend & AI Engineer at Unisys with 1.5+ years building scalable REST APIs, microservices, and AI-powered systems using NestJS, Node.js, and Python. Championed AI adoption across teams — integrated OpenAI into production workflows, built agentic AI platforms, and facilitated global AI upskilling programs. Delivered enterprise solutions spanning Salesforce integrations, payment gateways, and log analytics. Published researcher (Springer Nature & IEEE) in Quantum Neural Networks and NLP. Departmental Rank 2 in AI & ML, CGPA 9.62/10. NVIDIA Jetson Student Ambassador.

PROFESSIONAL EXPERIENCE

Unisys | Bengaluru, KA – Associate Software Engineer – Backend & AI

Aug 2025 – Present

- Building an agentic AI platform for automated code generation and analysis, integrating LLM capabilities into the development lifecycle.
- Integrated OpenAI APIs into existing production systems and new projects; drove team-wide AI tool adoption and participated in global AI training programs as a facilitator.
- Developed AI middleware using NestJS for rate-limiting AI API usage with per-user session management, quota enforcement, and consumption tracking.
- Delivered Salesforce project integrations: Paymentus (payment gateway), Google Analytics, and IDIS; built Azure Blob Storage pipeline for automated daily document archival.
- Built a Salesforce log analytics dashboard — fetched raw logs from the org, parsed and transformed server-side, and rendered real-time insights in a custom UI.

Unisys | Bengaluru, KA – CA&I Intern – Backend Developer

Oct 2024 – Aug 2025

- Contributed to a large-scale reusable component platform with 150+ APIs; identified and resolved critical DB performance issues causing production failures, significantly improving system stability.
- Built and secured RESTful APIs for data sync, authentication, and validation using Node.js, NestJS, and Python; implemented Bearer Token auth, middleware, and auth guards for modular, secure architecture.
- Set up Docker environments, managed deployments, resolved production bugs (DB timeouts, response formatting); authored Swagger/OpenAPI documentation for all delivered APIs.

PROJECTS

Voyanta (AI travel planner, microservices, NestJS, LLMs – personal project) | **RAG Pipeline** (Python, LangChain, Vector DB – document QA system)

Diabetes Prediction (Python, Scikit-learn, ML) | **Image Colorization** (Caffe-Net, Deep Learning) | **Hand Gesture Recognition** (Python, Computer Vision) | **Route Finder** (Dijkstra's Algorithm, Hackathon)

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Frameworks & AI: NestJS, Node.js, FastAPI, Django, TensorFlow, Scikit-learn, LangChain, OpenAI SDK, RAG

Databases & Cloud: PostgreSQL, MongoDB, Azure Blob Storage, Azure VM, Azure AD, Vector Databases

Tools & Platforms: Docker, Git, Swagger/OpenAPI, Postman, Salesforce, Power BI, Tableau, Odoo ERP

Concepts: REST API Design, Microservices, Agentic AI, Rate Limiting, 3rd-Party Integrations, Log Analytics

EDUCATION

New Horizon College of Engineering – B.Tech, Bachelors in Artificial Intelligence & Machine Learning with Honors Degree

Dec 2021 – Aug 2025

CGPA: 9.62 / 10 | Departmental Rank 2 in AI & ML | Bengaluru, Karnataka

RESEARCH & PUBLICATIONS (SPRINGER NATURE / IEEE)

- "Towards a Nuanced Sentiment Analysis: A Novel Hybrid Approach to Aspect-Based Insights" — hybrid BERT + LSTM model for aspect-based NLP sentiment analysis.
- "Enhancing Neural Networks with Quantum Computing" — Quantum Neural Networks integrating quantum computing with deep learning architectures.

CERTIFICATIONS, HONORS & LEADERSHIP

- Certified as Claude Architect by Anthropic.
- NVIDIA Jetson Student Ambassador — delivered Edge AI, CUDA & Jetson Nano workshops to 120+ peers; Technical Speaker at NVIDIA Jetson AI Workshop.
- Certifications: AI on Jetson Nano (NVIDIA) | DevOps | Enterprise Design Thinking Practitioner (IBM) | Machine Learning For All | Network Troubleshooting.
- Hackathons: Quantum X 23 & Quantum X 24 (24-hr). | Vertical Chair Head, YiYuva Bengaluru Chapter — drafted PMO development proposals, organized entrepreneurial meets | Represented as a Captain to the u16 KYCA Cricket Team..
- Languages: English, Hindi, Kannada, Telugu (Fluent) | French (Basic).