

Hari Narayan Srivatsan

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Portfolio: hari-narayan.com

SUMMARY

Product-focused software engineer with 4+ YOE shipping AI/ML solutions for education, research & enterprise stakeholders

EDUCATION

MS in Management Information Systems | Texas A&M University – College Station, TX **Aug 2024 – May 2026**
BS in Computer Science and Engineering | SASTRA Deemed University – Thanjavur, India **Jul 2016 – May 2020**

EXPERIENCE

Software Engineer Intern | Alcon R&D Product Security | Lake Forest, CA **May 2025 – Aug 2025**

- Architected QnA portal using **React** and **Python** backed by **RAG** pipeline on **Amazon Bedrock** serving 300+ internal users
- Partnered with engineers and deployed prototype for **UAT**, scaling to production with iterative rollouts based on feedback
- Demonstrated zero-shot inference edge-AI workflow leveraging Hailo AI accelerators for medical image authentication

Software Engineer Graduate Assistant | Texas A&M University | College Station, TX **Sep 2024 – May 2025**

- Owned software development lifecycle of instructor onboarding portal at educational non-profit serving 10000+ students
- Migrated to AWS serverless architecture with **Lambda**, **S3**, **API Gateway** etc. reducing operational costs by 80% in 3 weeks
- Launched pilot to 250+ users collecting usage data via **DynamoDB Streams** assisting research on AI-driven teacher training
- Wrote automated **unit tests and integration tests** for all system features enabling handoff for future system maintenance

Software Engineer | Deloitte USI (Cloud Security) | Chennai, India **Jun 2021 – Jul 2024**

- Designed API using **FastAPI** for **LLM Guardrails** system orchestrating requests to input prompt & AI output scanner services
- Improved threat detection efficiency by 30% & replaced 3 redundant scanners with 1 through robust prompt engineering
- Configured security access controls for **Oracle Cloud ERP** supporting 80+ business units; implemented **SOX compliance** controls and documented user role specifications for audit and regulatory requirements
- Collaborated with functional teams **troubleshooting critical access defects** and ensured data security across business units

Software Engineer Intern | Hewlett Packard | Bengaluru, India **Jan 2020 – Jan 2021**

- Built IT support chatbot prototype with **Slack**, **Google Dialog Flow** & **ServiceNow** replacing legacy solution in 2 months
- Aided automation initiatives designing 20+ **UiPath** workflows for routine team tasks saving 100+ work hours monthly
- Mentored 3 teams during a company-wide hackathon, accelerating adoption of RPA best practices across global HP offices

PROJECTS (github.com/harinarayansrivatsan)

Competency Tracker | Software Engineer (Deployed at Plymouth State University) **Jan 2025 – May 2025**

- Built serverless web portal providing teachers with data-driven insights on student skills & progress via star-based scoring
- Designed & built infrastructure-as-code workflow using AWS CloudFormation templates with nested stack approach

Point-of-Sale Optimization | Database Administrator **Aug 2024 – Dec 2024**

- Scripted SQL queries to perform data cleaning and ETL processes on **MariaDB** hosted on EC2 servers, for a local business
- Managed replication, clustering and performed schema migration to MongoDB for faster query responses and scalability

SKILLS

Programming: Python, TypeScript, Object Oriented Design, Data Structures, REST APIs, Debugging, Testing, Code Reviews

Product: Agile, Scrum, User Interviews, Persona Mapping, Lucid Chart, Wireframing, Prototyping, Sprint Planning

Data: SQL, non-relational databases (MongoDB, Pinecone, DynamoDB), Retrieval Augmented Generation (RAG)

Frameworks: FastAPI, React, LangChain, LangGraph, Streamlit, n8n, Google ADK, Model Context Protocol (MCP)

Cloud/DevOps: Git, Linux, CI/CD, Docker, Terraform, AWS (Lambda, EC2, CloudFormation, Cognito, CloudFront)

Certifications: AWS Solutions Architect Associate, Cloud Security Knowledge CCSK, OCI Generative AI Professional

LEADERSHIP AND VOLUNTEERING

President – Business Information Technology Students Club (BITS @ TAMU) **Aug 2024 – Present**

- Directed a cross-functional team of 8 students to execute club initiatives in hosting 3 high-profile guest speaker sessions
- Forged strategic partnership with local business, recruiting 3 volunteers & delivered full stack business website in 16 weeks