Hari Narayan Srivatsan

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Portfolio: hari-narayan.com

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** | 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
- Presented end-to-end edge AI workflow to stakeholders leveraging Hailo AI accelerators to authenticate medical images

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

Backend Software Engineer | **Deloitte USI** | 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 API 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 | Backend Software Engineer (Deployed at Plymouth State University)
- 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

POS Migration | Database Administrator
- 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), PyTorch, Ranking, Embedding, Information Retrieval
Frameworks: FastAPI, React, LangChain, LangGraph, Streamlit, n8n
Cloud/DevOps: Git, Linux, CI/CD, Docker, AWS (Lambda, EC2, CloudFormation, Cognito, CloudFront), Terraform
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**
- Revived organization in 3 weeks by establishing vision, scope, goals and organization code of conduct for future leaders
- 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

Volunteer – Aggie Achieve (TAMU)   **Jan 2025 – May 2025**
- Conducted in-person training workshops on AI tools for students with disabilities resulting in 50% increase in participation
- Assisted students with course registration and offered preparation advice for industry certifications in cybersecurity