

SHRI HARRI PRIYA RAMESH

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Education

Master of Science in Information Technology

Aug 2023 - May 2025

Arizona State University, Tempe, AZ

GPA: 4.0/4.0

Bachelor of Engineering in Computer Science and Engineering

Jul 2019 - May 2023

Sri Sai Ram Institute of Technology, Chennai, India

GPA: 8.9/10.0

Technical Skills

Web Dev and Frameworks: React.js, Vue, Angular, Node, Django, FastAPI, Flask, Next.js, HTML, CSS, Tailwind CSS, Three.js, Framer motion

Languages and Databases: Javascript, Typescript, Python, SQL, PL/SQL, MySQL, MongoDB, PostgreSQL, Java, NoSQL DB, Aurora Athena, Redshift

Tools and Technologies: Apache Spark, AWS, Git, Docker, Google Cloud, Figma, Linux, Kubernetes, GitHub Actions, Terraform

Experience

Full Stack Engineer Intern

May 2024 - Aug 2024

Flow.AI

Wilmington, DE

- Built a unified Electron.js application **integrating Salesforce, HubSpot, and LinkedIn Sales Navigator APIs**, eliminating 300+ daily tab switches per user and reducing task completion time by 35%
- Developed a modular **React component library with Redux state management**, reused across 15+ sales workflows, reducing UI development time by 50% and ensuring design consistency
- Designed a **Django REST API** with under 300ms latency for **real-time CRM sync**, leveraging **Redis** caching to reduce database load by 40%.
- Implemented **MongoDB** index tuning and aggregation pipelines, **improving query performance by 70%** for AI-driven prospect recommendations

Research and Development Intern

Sep 2021 - Feb 2022

Finari Services Private Limited

Chennai, India

- Optimized 50+ complex SQL queries** for high-volume transactional systems, reducing average execution time by 30+ seconds through query restructuring, strategic indexing, and execution plan analysis
- Automated data workflows** using ACID-compliant transactions, and dynamic bulk DML operations, eliminating 90%+ of manual entry errors and accelerating processing by 50% through atomic batch commits

Projects

Enterprise Resource Planning (ERP) Database system | Microsoft SQL server, CRM, ERM

- Designed an ERP database schema** which can handle **real-time data** and centralize data across product planning, manufacturing, order fulfillment, and finance, reducing order processing time by 50%
- Automated data population** and with triggers, stored procedures, and user-defined functions

e-Commerce website | Django, React.js, JavaScript, REST-API

- Built a full-stack e-commerce application utilizing **Django and React** framework and **advanced JavaScript concepts**, showcasing over 100 simulated products across 10 categories
- Integrated Stripe payment processing functionality to enable **secure online transactions** handling up to **100 transactions per minute**
- Implemented **JWT authentication** for user accounts and payment details with an authentication system that supports over 1,000 concurrent users

Auto Doc Generator using LLM | Next.js, Llama, Git

- Developed an AI-powered Next.js documentation generator that analyzes Git diffs using Llama-3-8B (via Groq API), and **automated the documentation process**, reducing manual documentation time by 90%
- Engineered **real-time documentation workflows** featuring live Markdown preview and syntax highlighting, enabling engineers to validate AI-generated docs instantly while maintaining code-doc synchronization, cutting review time by 70%

Visibility Prediction System | AWS Sagemaker, AWS QuickSight, Python

- Developed an end-to-end **cloud-based machine learning pipeline on AWS** to forecast hourly visibility in airports using AWS DeepAR with 20% boost in accuracy compared to existing models like ARIMA
- Designed an **interactive dashboard in AWS QuickSight**, featuring that can reduce the time spent on data analysis by 30%

Achievements

Best Innovative Project Award from Computer Society of India

Nov 2022 - Apr 2023

- Earned best innovative project award from Computer Society of India for oil spill detection project, triumphing over 1,25,000 members

Smart India Hackathon (SIH) Winner

Mar 2022 - Sep 2022

- Secured 1st place in prestigious national level Smart India Hackathon by developing an hourly visibility prediction system