

SHRI HARRI PRIYA RAMESH

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Education

Master of Science in Information Technology

Aug 2023 - May 2025

Arizona State University, Mesa, AZ

GPA: 4.0/4.0

Relevant Coursework: Cloud Architecture, Natural Language Processing, Advanced Big Data Analytics, Artificial Intelligence

Bachelor of Engineering in Computer Science and Engineering

Jul 2019 - May 2023

Anna University, Chennai, India

GPA: 8.9/10.0

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems, Machine Learning

Technical Skills

Languages / Databases: Python, Java, JavaScript, TypeScript, C++, C, SQL, PostgreSQL, MySQL, MongoDB, Redis, PL/SQL

Frameworks / Libraries: React.js, Next.js, Node.js, Django, FastAPI, Spring Boot, Angular, Vue.js, Redux, Tailwind CSS, HTML, CSS

Cloud / Infrastructure: AWS, Docker, Kubernetes, Google Cloud, Terraform, Apache Spark, Celery

Tools / Platforms: Git, GitHub Actions, Linux, Figma

Experience

Full Stack Engineer

Jun 2025 - Present

W4M.AI - SaaS Startup

Phoenix, AZ

- Built and shipped a streamlined review dashboard for managing 3,000+ weekly submissions, replacing fragmented views with a single-screen triage interface
- Led cloud infrastructure migration from **AWS S3** to **Cloudflare R2** for 1,000+ users, redesigning asset delivery architecture to cut hosting costs 3x and reclaim 100 GB storage
- Implemented **cache-busting** for image assets and **CDN invalidation**, reducing profile update latency from 24 hours to 5 minutes

Full Stack Engineer Intern

May 2024 - Aug 2024

Flow.AI - SaaS Startup

Wilmington, DE

- Developed an Electron.js desktop app with **React and Redux**, integrating Salesforce, HubSpot, and LinkedIn data, unifying prospect intelligence across 3 CRM platforms for AI-driven lead scoring
- Engineered a **Django microservice** with **Redis caching** for real-time CRM sync, processing 10,000 records/hour while reducing database queries 4x
- Optimized MongoDB queries and indexes, **reducing search latency** from 2 seconds to under 600ms for 5,000+ daily user queries

Research Intern

Nov 2021 - Jan 2022

National Institute of Ocean Technology

Chennai, India

- Reconstructed missing meteorological data using ensemble imputation in **PySpark**, achieving 98% accuracy for predictive modeling
- Designed statistical quality control frameworks using range checks, temporal consistency tests, and **bias correction** methods to verify data integrity across 5 million records with 250+ features

Research and Development Intern

Sep 2021 - Feb 2022

Finari - FinTech Startup

Chennai, India

- Created PL/SQL procedures utilizing table partitioning and parallel processing to manage **high-volume datasets**, increasing query throughput to handle 100+ queries per minute
- Implemented bitmap and function-based indexes, **reducing query response times** from 15 to 7 seconds for frequently accessed banking tables

Projects

AI-powered CRM dashboard | Next.js, Typescript, FastAPI, Supabase, Llama

- Built full-stack student CRM with Next.js/TypeScript and FastAPI, integrating **Llama 3** for automated risk scoring across 300+ profiles with communication tracking and progress monitoring
- Developed predictive alerting system with **custom Llama prompts** analyzing communication logs and attendance patterns, surfacing at-risk students with priority scoring

Visibility Prediction System | AWS Sagemaker, AWS QuickSight, Python

- Deployed end-to-end **ML pipeline** on **AWS SageMaker** for airport visibility forecasting, training DeepAR time-series models on dataset of 12,000+ hourly weather records with 14 atmospheric parameters
- Achieved 92% prediction accuracy with DeepAR outperforming LSTM and ARIMA baselines, deploying interactive QuickSight dashboard with 15+ visualization charts for forecast analysis

Achievements

Best Innovative Project Award from Computer Society of India

Apr 2023

- Awarded for oil spill detection system using MCAN architecture among 125,000+ competing projects

Smart India Hackathon 2022 - National Winner

Aug 2022

- Won first place among 500,000+ competing teams for ML-powered visibility prediction system addressing aviation safety challenges