

Shashikar Anthoni Raj

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EDUCATION

Northeastern University, Boston

Master of Science – Information Systems

May 2025

Assistantships: TA for INFO 6205 – Program Structure & Algorithms

Relevant Coursework: Object-Oriented Design, Advanced Data Structures & Algorithms, Distributed Systems Design, Cloud Computing Architecture, Database Systems

National Institute of Technology, Warangal

Bachelor of Technology – Computer Science Engineering

May 2021

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Networks, Distributed Systems, DBMS

TECHNICAL SKILLS

Backend Development: Java (Spring Boot, Hibernate), Node.js (Express), Python, JUnit, Swagger, Gradle, Maven

Frontend Development: React, Redux, TypeScript, JavaScript

Databases & Storage: PostgreSQL, MySQL, Redis, MongoDB

Cloud Platforms: AWS (EC2, Lambda, API Gateway, SQS, SNS, S3, RDS) and GCP (Compute Engine, Cloud SQL, Cloud Functions, Pub/Sub, Operations Suite)

DevOps & Monitoring: Docker, Kubernetes, Terraform, CI/CD, Kafka, Linux

Certifications: [AWS Solutions Architect - Associate](#)

EXPERIENCE

Ford Motor Company, Chennai

Software Development Engineer, E-commerce - (Java, Spring Boot, Python, MySQL)

Jun 2021 - Jul 2023

- Engineered **RESTful APIs with Spring Boot** for payment, discount, and delivery integrations in an **Agile environment**, connecting third-party services with **unit and integration tests**, improving **operational efficiency by 25%**
- Automated **order-expiry workflows** using **Python scripts, SQL queries, cron jobs**, and **event-driven messaging with Kafka**, implementing retry logic and alerts that reduced data inaccuracies by **30%** and manual interventions by **40%**
- Implemented authentication across **several microservices** using **OAuth 2.0 and JWT**, reducing **auth-related incidents by 40%** and improving login success rates
- Orchestrated 200+ SIT/UAT test scenarios using **Postman, BackOffice, and Jenkins CI/CD pipelines**, reducing **production bugs by 25%** and achieving a **95% first-pass deployment rate**
- Mentored five junior developers through bi-weekly **code-review** workshops and pair programming to elevate team **code-quality scores by 70%** and accelerate new-hire ramp time
- Resolved 100+ customer issues** through root cause analysis and workflow management in an **agile setting**, leveraging **JIRA** for tracking and documentation

Qubicle, Doha, Qatar

Software Engineering Intern - (React, Redux, Node, Express, MongoDB)

May 2020 - Aug 2020

- Architected a responsive event scheduling platform using **React, Redux, Node/Express, and MongoDB**, enabling responsive UI rendering and real-time data synchronization, resulting in a **30% increase in user engagement**
- Conducted code reviews, optimized API efficiency, and provided mentorship in debugging and performance improvements across full-stack development tasks

RELEVANT PROJECTS

AutoScaleLearn: GCP-Backed E-Learning Submission Engine [[Demo](#)] (Spring Boot, GCP, Terraform, CI/CD)

- Developed Spring Boot RESTful APIs, created custom VM machine images, and provisioned **GCP infrastructure** (VPC, Cloud SQL, IAM roles, Compute Engine, Pub/Sub) via **Terraform** for automated, repeatable deployments
- Configured **autoscaling** and **HTTPS load balancer** with SSL termination, improving reliability and handling traffic surges without downtime during testing
- Automated **CI/CD pipelines** with **GitHub Actions** and integrated **Google Cloud Operations Suite**, enhancing monitoring and accelerating test-cycle feedback with real-time alerts

EventSphere: Geo-Aware Community Marketplace Platform [[Demo](#)] (React, Node, Redux, MongoDB, AWS)

- Built a geo-aware marketplace platform using **React with TypeScript, Redux, Node.js, MongoDB** implementing **zipcode-scoped feeds** and listings to surface relevant local activities
- Integrated **Mapbox, Stripe, and OpenWeatherMap APIs**, and deployed on **AWS Elastic Beanstalk** with **EC2, S3, and API Gateway** using CI/CD pipelines enabling location search, payments, and analytics

HealthVault: Patient Data Management System [[Demo](#)] (SQL, PL/SQL, Database Design)

- Designed and optimized a **SQL/PL-SQL** database with role-based access controls and reporting modules for patient records, **improving query latency by 30%** and ensuring **HIPAA-compliant** data handling and privacy controls