

Yuvan Thirukumaran

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EDUCATION

Instituto Tecnológico de Estudios Superiores Monterrey (ITESM)

B.S. in Computer Science in Technology

Monterrey, N.L.

August 2021 – June 2025

EXPERIENCE

Oracle

Guadalajara, Mexico

Software Developer II

August 2025 – Present

- Built a Kubernetes rollout configuration feature across 12 Java microservices in the 5G Policy Charging Function platform (real-time policy and billing decisions for carrier networks), exposing tunable parameters such as rolling update strategy, max surge, max unavailable, and readiness probe thresholds, giving deployment teams finer control over release behavior in production environments.
- Working on the JDK 17 to 25 uplift across the platform, resolving GraalVM JS compatibility issues that were breaking the Karate contract test pipeline and aligning third-party dependencies across services to keep the platform on a supported LTS.
- Standardized logging across 12 microservices by normalizing log levels and improving call-flow tracing on the N7, N36, and Sy interfaces, making it faster to follow a request through the system and cutting down debugging time during incident response.
- Manage 3 nightly builds per week, triaging merge conflicts, dependency mismatches, and integration test failures across the team's services to keep feature delivery on track for each sprint.

Software Engineer Intern

August 2024 – June 2025

- Migrated a core internal library across the 5G Cloud Native Communications platform, coordinating updates across all dependent microservices and validating compatibility through the existing test suites; the migration improved system performance by 60% in benchmarked workloads.
- Delivered Java features and bug fixes across Kubernetes-managed microservices, working within the team's code review and CI/CD process to maintain reliability under telecom-grade requirements.
- Analyzed system metrics from production-equivalent environments to identify performance bottlenecks, surfacing findings that informed the architectural decisions behind the post-migration gains.

CEMEX

Monterrey, Mexico

Software Engineer Intern

March 2024 – July 2024

- Built an internal web platform for managing quality test requests using .NET, SQL Server, and React, replacing a manual workflow used by a 25-member quality assurance team.
- Designed the UI with React and Tailwind CSS and implemented the backend with FastAPI, structuring the API around the team's existing test request lifecycle.
- Integrated Azure Authentication API for SSO, set up Docker-based deployment, and managed source control through Bitbucket.

MAJOR PROJECTS

CVForge.ai

February 2024 – June 2024

- SaaS application that uses GPT-3.5 Turbo and the LinkedIn API to generate and tailor CVs to specific job postings, built with Next.js, Node.js, TypeScript, AWS, and PostgreSQL — delivered in collaboration with Wizeline as part of a capstone project.
- Designed a scalable AWS architecture for the application's content delivery and authentication flow; ran the project under Agile/Scrum with iterative sprint planning and team reviews.

LEADERSHIP

President, Computer Science in Technology Alumni Society

August 2023 – June 2024

- Organized conferences with tech companies to share career insights with students, and ran workshops on CV building and interview preparation, reaching over 2,000 computer science students across the program.

Campus Ambassador, ITESM

August 2023 – June 2024

- Represented the institute by leading campus tours, delivering informational talks, and answering questions from prospective students and their families during open-house events.

SKILLS

Languages: Java, Go, Python, TypeScript, JavaScript, C++, SQL, C#, Kotlin, Bash

Technologies: Kubernetes, AWS, Docker, CI/CD Pipelines, React, Next.js, Node.js, ASP.NET Core, FastAPI, PostgreSQL, SQL Server, Prisma, Tailwind CSS, Azure AD, Bitbucket, Microservices

Spoken Languages: English, Spanish (C2) | German (B2) | Kannada, Tamil, Hindi (Native)