manoloesparta@gmail.com • Guadalajara, Mexico • https://www.linkedin.com/in/manuelesparza

Manuel Esparza Guzman

Role: Software Engineer Full Stack | Backend Developer Senior | Cloud Software Engineer

Full Stack Software Engineer with over 3 years of experience designing and optimizing scalable solutions in cloud environments. Specialized in backend development with Java and Python, infrastructure as code with Terraform, and container orchestration with Kubernetes. Proven experience implementing high-performance microservices on AWS and OCI, translating business requirements into robust technical solutions. Complete stack mastery: from REST API design to responsive React interfaces. Passionate about automation, DevOps, and software engineering best practices. Seeking to contribute to high-performance teams where I can apply my experience in cloud-native architectures and continue developing in cutting-edge technologies.

Experience

Oracle Guadalajara, Jalisco
Software Engineer July 2022 – September 2025

Develop and maintain scalable cloud-native services, ensuring high availability and optimal infrastructure performance for Oracle's OS Management Hub, a centralized platform managing patches and updates across OCI, private data centers, and third-party cloud environments.

- Designed and implemented 10+ backend features in Java for OSMH production services, reducing API response time by 30% through query optimization and strategic caching.
- Resolved 100+ critical bugs across backend services, management console frontend, and OS agents, improving overall product stability and customer satisfaction.
- Transformed 50+ Figma designs into production-ready React web applications for the OSMH centralized management console, improving user experience and reducing load time by 20%.
- Developed and maintained a lightweight system agent in Go that monitors 100k+ OS instances across hybrid cloud environments, achieving 99.9% uptime in patch deployment and compliance tracking.
- Leveraged deep knowledge of RPM package structure and dependency management to debug complex OS update scenarios.
- Developed internal debugging tools in Python that reduced time by 50% for infrastructure and patch management incidents.
- Operated and optimized Kubernetes clusters in multi-tenant environments, scaling from 50 to 200+ pods without performance degradation to support growing customer workloads.
- Automated infrastructure provisioning with Terraform, reducing deployment time from 4 hours to 1 hour and eliminating manual configuration errors across OCI regions.
- Wrote 30+ automated test cases in Python, ensuring reliability of patch deployment operations.
- Managed and optimized Oracle Database instances with over 2TB of patch metadata and compliance data, implementing partitioning strategies that improved query performance by 20%.
- Contributed to the OCI Terraform Provider with 5+ new resources for OSMH service management, facilitating automated OS lifecycle management adoption by enterprise clients.

Insulet Tijuana, Baja California
Cloud Trainee April 2021 – May 2022

Develop and maintain scalable cloud-native services, ensuring high availability and optimal infrastructure performance for a real-time health monitoring application serving medical device users.

- Designed cloud-native backend architectures on AWS using Lambda, ECS, S3, and MongoDB to process and display real-time health status data for 10,000+ users with 99.95% availability.
- Developed AWS Lambda functions in Python for event-driven processing of medical device telemetry data, enabling sub-second health status updates with 25% lower operational costs.
- Built and deployed high-performance microservices on ECS using Java, Vert.x, and ReactiveX to handle real-time data streaming, processing 50,000+ health metric requests/hour.

Education

CETYS Universidad **Tijuana, BC**
Computer Science. GPA: 9.4 **June 2022**
Relevant Coursework: Artificial Intelligence Specialization

Oracle University **Guadalajara, JAL**
Completed multiple technical courses and certifications as part of ongoing professional development **September 2025**
Relevant Coursework: Oracle Cloud Infrastructure, PL/SQL, Java

Self-Directed Learning **Online**
Continuously expanding technical expertise through self-study using technical books, online courses, and hands-on projects. **Ongoing**
Relevant Coursework: Linux, C/C++, iOS, AWS, Rust, Compilers, ASM, AI, Crypto, Kubernetes, Terraform, GPUs

Skills & Interests

Technical: Java, Python, Go, TypeScript, React, Linux, OCI, AWS, Terraform, Docker, Kubernetes, Microservices, CI/CD, Cloud Native
Languages: English (Professional), Spanish (Native)
Interests: Web, Cloud, Linux, Compilers, LLMs, Rust