IVAN DAVID DIAZ SANCHEZ

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WORK EXPERIENCE

Amazon   Jun 2025 – Jan 2026 | Seattle, WA

Software Development Engineer III (Contractor)   *Jun 2025 – Jan 2026*

- Designed and implemented a seamless Microsoft Office update and upgrade transition system, ensuring efficient enterprise-wide compliance and maintaining security standards across Amazon environments.
- Built an automated system drift detection and remediation job to monitor configuration inconsistencies across internal infrastructure, improving environment reliability and operational accuracy.
- Architected a configurable release-discovery system to identify official distributions of different software used by Amazon, reducing manual lookup efforts and accelerating deployment workflows; developed an accompanying test interface to streamline validation processes.

Microsoft Corporation   Jul 2019 – Jan 2025 | Redmond, WA

Software Engineer II   *Sep 2021 – Jan 2025*

- Shipped key components of .NET Framework 4.8.1, enabling native ARM64 support and porting high-impact features from .NET Core to modernize the runtime.
- Partnered with the Windows team to integrate the framework release seamlessly into the operating system, ensuring stability and compatibility at the OS level.
- Enhanced the .NET runtime for Docker containers by implementing configurable processor allocation, improving resource efficiency in containerized workloads.
- Led development of ASP.NET Core composite container images, conducting performance benchmarking across multiple scenarios to identify optimization opportunities. Reduced container image size while preserving performance gains, improving deployment efficiency and startup performance.
- Designed and implemented a new runtime API enabling dynamic entry assembly configuration, supporting advanced launcher applications and Azure-hosted service scenarios.

Software Engineer   *Jul 2019 – Sep 2021*

- Built performance benchmarking infrastructure to measure and analyze Garbage Collector behavior across .NET Core and .NET Framework, enabling data-driven runtime optimizations.
- Improved .NET Core build and test infrastructure, enhancing developer productivity and laying the groundwork for a unified runtime testing system.
- Delivered foundational ARM64 compatibility fixes for .NET Framework, contributing to the eventual cross-architecture release in version 4.8.1.

Oracle   Jan 2017 – Jul 2019 | Zapopan, Jalisco, Mexico

Software Developer II   *Jan 2017 – Jul 2019*

- Developed new PL/SQL language features within the Oracle Database engine, including native Large Object (LOB) management and advanced numerical operations.
- Designed and maintained cross-language testing frameworks to ensure behavioral and performance parity between PL/SQL and SQL execution paths.

EDUCATION

B.S. Computer Science and Technology   GPA 3.6/4.0

Instituto Tecnologico y de Estudios Superiores de Monterrey (ITESM)   *State of Mexico, Mexico*

SKILLS

Languages: C, C++, C#, Ruby, Python, JavaScript, SQL, PL/SQL, Bash, PowerShell, Elisp, Swift, Go, Julia, Lua

Technologies: Git, .NET, Linux, AWS, Software Design, Software Infrastructure, Docker, OpenAI API, Node.js, HTML/CSS, LaTeX, Emacs, Vim, Oracle, Discord API

Methodologies and Paradigms: Agile/Scrum, Object-Oriented Design, Test-Driven Development (TDD), DevOps, Continuous Integration (CI/CD), Relational Databases

ADDITIONAL EXPERIENCE

Completed hands-on coursework focused on building applications with the OpenAI API and Node.js, covering prompt design, API integration, response handling, and backend service workflows for LLM-powered systems.