

# Bryan Perez

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Software Engineer with a proven track record of designing scalable, secure software systems and leading AI-driven development workflows. Experienced in the full software development lifecycle, from translating non-technical stakeholder requirements into technical roadmaps to deploying cloud-native, secure applications. Expert in leveraging AI-assisted tools to optimize code quality and system reasoning.

## EDUCATION

### Bachelor of Science in Computer Science, Minor in Mathematics

2021 - 2025

University of Texas at El Paso

GPA: 3.5

**Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Software Engineering, Software Construction, Object-Oriented Programming, Artificial Intelligence, Machine Learning, Computer Security.

## SKILLS

**Languages:** Go, C#, TypeScript, JavaScript, Java, Python, SQL, HTML/CSS.

**Frontend & Frameworks:** React, Next.js, Node.js, Tailwind CSS, SvelteKit, MVC Architecture.

**Architecture & DevOps:** Microservices, REST APIs, CI/CD Pipelines, AWS, Docker, Proxmox.

**Leadership Tools:** Agile/Scrum, Waterfall, Technical Documentation, Stakeholder Management, Requirement Analysis.

## WORK EXPERIENCE

**Centro de Apoyo para la Familia A.C** | *Full Stack Developer* | 2023 – Present

**Ciudad Juarez, Mexico**

- Led the end-to-end design and implementation of an internal software platform, setting the technical direction for transitioning from manual workflows to a data-driven **React/TypeScript** ecosystem.
- Acted as the primary technical liaison for non-technical leadership, translating complex business needs into technical specifications and providing regular briefings on **project risks** and **timelines**.
- Engineered a secure backend using PostgreSQL with Role-Based Access Control (**RBAC**), ensuring data integrity for sensitive case intake and strict compliance with stakeholder privacy reporting.
- Orchestrated cloud-native deployments on **AWS** and **Vercel**, establishing **CI/CD** pipelines to automate testing and validation before transitioning to a cost-effective **Docker** self-hosted environment.

**Outlier.ai** | *AI Engineer* | 2024 – Present

**El Paso, Texas**

- Evaluated and refined AI-generated code in **Python** and **Java** to improve LLM reasoning capabilities, setting standards for AI-assisted development tools used across the project.
- Conducted rigorous code quality reviews and **unit testing**, ranking model responses based on time complexity and accuracy to ensure high-performance software output.
- Identified and resolved technical ambiguities in AI-generated logic, independently determining the most efficient implementation paths for **complex algorithms**.

## PROJECTS

**Bank of Miners** | *Java, Spring Boot, React, Docker* | *Lead Developer*

- Refactored** a legacy system into a modern web app, implementing custom Binary Search Trees (BST) for  $O(\log n)$  data retrieval and Write-Through persistence for reliability.
- Managed the full-stack development of a banking application, coordinating the integration of a **React** frontend with a **Spring Boot** REST API.

**DEM Bravo (Docker Exploit Mapper)** | *FastAPI, Neo4j, SvelteKit, Docker, Python* | *Architect*

- Architected an offline-first cybersecurity platform using **NoSQL (Neo4j)** to model complex attack graphs, handling **asynchronous** data streams via Docker SDK orchestration.
- Enforced **STIG**-compliant database security by developing a custom query sanitizer, preventing injection attacks during multi-tool data ingestion.