

# DAVID PIMENTEL

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## TECHNICAL SKILLS

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**Languages:** SQL, PL/SQL, JavaScript, PHP, Java, HTML/CSS

**Databases:** Oracle DB, MySQL, relational modeling, normalization (1NF–3NF)

**Frameworks & Tools:** Node.js, Express.js, Bootstrap, Chart.js, Power BI, Git

**Concepts:** MVC Architecture, OOP, REST APIs, Transactional Data Processing, OWASP Security, ISO/IEC 25010

## EXPERIENCE

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### Software Developer

Jan. 2025 – Present

*TourIstmo – Tourism Data Platform | Freelance*

*Panama*

- Designed and implemented a relational database in Oracle DB with 15+ tables, applying normalization up to 3NF and referential integrity across user, company, destination, and transactional activity entities.
- Developed 10+ stored procedures, functions, triggers, and cursors in PL/SQL to automate data validations, content approval workflows, and recommendation generation based on interaction history.
- Implemented complete transactional logic with COMMIT/ROLLBACK handling and exception management to ensure data consistency across multi-step insert and update operations.
- Designed SQL views consolidating data from 5+ tables to generate summarized transactional reports of client activity – directly replicating extraction and reporting workflows used in regulatory compliance environments.

### Full-Stack Developer

Aug. 2024 – Present

*PaperEase – Institutional Management System | Freelance*

*Panama*

- Led backend development of a full-stack web application with Node.js and MySQL to automate institutional request workflows, replacing 100% manual processes for a team managing 50+ monthly cases.
- Implemented role-based access control, password encryption with bcrypt, and an audit log table recording all access events with timestamps and IP metadata.
- Conducted formal software quality evaluation under ISO/IEC 25010 standards, achieving 80% test pass rate and 83% code coverage on the core data management module.
- Developed statistical dashboards with Chart.js visualizing activity trends by program, category, and year – enabling data-driven decision-making for department leadership.

### Software Developer

Nov. 2025 – Present

*CMDB – Inventory Management System | Freelance*

*Panama*

- Architected a multi-module inventory system in PHP following MVC and OOP patterns, with a relational MySQL database tracking equipment status, assignments, and category hierarchies.
- Implemented OWASP Top 10 security standards including SQL injection prevention with Prepared Statements, CSRF token validation, rate limiting, and device fingerprinting with SHA-256 hashing.
- Built a real-time metrics dashboard with Chart.js displaying 5 operational status categories, providing instant visibility into the complete inventory lifecycle.

## EDUCATION

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### Universidad Tecnológica de Panamá

Panama City, PA

*B.Sc. in Software Engineering, Faculty of Computer Systems Engineering | GPA: 2.65/3.0*

*2023 – Present*

### Instituto Cultural

Panama City, PA

*Bilingual High School Diploma in Sciences, Humanities & Computer Science*

*2009 – 2022*