SANTIAGO PALMA

Arequipa, Peru

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Education

Universidad Nacional de San Agustín de Arequipa   Apr. 2024 – Dec. 2028
Bachelor of Science in Systems Engineering   *Arequipa, Peru*

Technical Skills

Languages: Python, TypeScript, JavaScript, HTML5, CSS3, SQL
Frontend: React 18, Tailwind CSS, Vite, Framer Motion
Backend: FastAPI, Node.js, Express, REST API Design, Prisma ORM
Databases: Neo4j (Graph), PostgreSQL, SQLite, Redis
Tools: Docker, Docker Compose, Git, GitHub Actions

Projects

SmartChimera | *React, TypeScript, FastAPI, Neo4j, Docker*   **2025**
- Developed graph-based team formation system that detects hidden organizational dependencies to mitigate Bus Factor risks by analyzing collaboration networks using Betweenness Centrality.
- Implemented Beam Search heuristic (W=10) for multi-objective optimization across 9 configurable mission profiles.
- Validated methodology with 500 Monte Carlo simulations using Welch's t-test for statistical significance.
- Built React/TypeScript frontend with D3.js graph visualization and FastAPI backend serving 15 REST endpoints.

CoronerIA | *Electron, React, FastAPI, LLM APIs, SQLite*   **2025**
- Developed 6,400 LOC solution addressing Latin America's forensic crisis (52,000+ unidentified bodies per investigative sources).
- Achieved 70% documentation time reduction in pilot test with medical professional vs. manual transcription.
- Implemented Strategy Pattern for provider-agnostic AI integration (compatible with OpenAI, Gemini, Azure, Whisper) with automatic offline fallback.
- Built interactive SVG anatomical model with real-time organ detection from speech transcription.

Keif-Gotchi CLI | *TypeScript, React (Ink), Node.js*   **Nov. 2024**
- Built terminal-based virtual pet in 8 hours that gamifies Git workflow by hooking into Git internals (post-commit, pre-push) to analyze commit quality in real-time.
- Recognized by GitKraken in global game jam for creative approach to developer education.
- Implemented evolution system based on coding patterns, persistent state with Conf, and ASCII animation engine.

santiagopalma.me | *React 18, TypeScript, Node.js, PostgreSQL, Docker*   **2024 – Present**
- Built full-stack portfolio with React SPA on GitHub Pages and Express API on DigitalOcean with Docker Compose.
- Implemented JWT authentication with httpOnly cookies, blog CMS with Prisma ORM, and Nginx reverse proxy with SSL.

Certifications

PCAP – Certified Associate in Python Programming, Python Institute (2024)
AI Forecasting Specialization, Universidad Católica San Pablo (2025)
English C1 Level, British Council (2025)

Publications

How I Reduced Forensic Documentation Time by 70% with Hybrid AI | Read Article   **Jan. 2025**

How I Built a Graph-Based Team Formation System That Detects Linchpins | Read Article   **Jan. 2025**