

JOSE MONTEJO

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TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), Java, SQL, HTML5, CSS3, JSON, Bash Basics
Backend & APIs: FastAPI, Node.js, Express, RESTful API Design & Integration, Pydantic, Asynchronous Request Handling (AsyncIO), JWT Authentication
Frontend & Full-Stack: React (Hooks, State Management, Component Lifecycle), Vite, Client-Side Form Validation, Responsive Web Design, WordPress Widget Embedding
Databases & Persistence: SQLite, SQLAlchemy (ORMs), MySQL (3NF Relational Modeling), MongoDB (NoSQL), Schema Validation & Constraints
AI Integration & Quality: LLM API Integration (Grok, Ollama), Model Context Protocol (MCP), Lexical Retrieval & RAG, Tool Calling, Deterministic Validation Guardrails, Responsible AI Inspection (Codex, ChatGPT)
Testing, Tooling & Practices: Automated Testing (Pytest, Mock Fixtures, Unit Tests), Git/GitHub (Feature Branches, PRs, Code Reviews), Postman, Linux/WSL, Agile/Scrum Principles, Bilingual (English & Spanish)

PROFESSIONAL SOFTWARE ENGINEERING EXPERIENCE

DA SILVA INTERNATIONAL / CAST TOURS Sep 2026 – Present
AI Research Team Member / Software Development Intern | Remote | Python, FastAPI, JavaScript, Groq, REST APIs, Pytest, Git, Render

- Architected, built, and publicly launched a production bilingual (EN/ES) AI travel assistant backend in Python and FastAPI, serving a custom JavaScript chat interface embedded across 6 authorized public WordPress pages.
- Integrated high-speed Groq inference with approved trip-specific knowledge and lexical retrieval across curated catalog itineraries to generate grounded, context-accurate responses.
- Engineered deterministic validation layers, strict Pydantic JSON schemas, privacy safeguards, and automated fail-closed escalation workflows safely referring unconfirmed or out-of-scope inquiries to human staff.
- Investigated and resolved a critical production defect where an iframe sandbox missing `allow-forms` blocked message submissions; implemented the fix, authored automated regression coverage, verified production behavior in Chrome, and coordinated launch milestones with company stakeholders.

SELECTED TECHNICAL PROJECTS

DETAILDESK – COLLABORATIVE FULL-STACK SERVICE BUSINESS APPLICATION 2026
Academic Full-Stack Prototype | Team Developer | React, Vite, Node.js, Express, SQLite, Git/GitHub

- Collaborated in a shared multi-developer GitHub repository utilizing feature branches, pull requests, and peer code reviews to build full-stack service quote and appointment workflows.
- Implemented frontend interface personalization and responsive design updates (merged via PR #14), mobile quote form header enhancements (PR #3), and local-date handling and same-photo re-upload bug fixes (PR #5) in React.
- Reviewed and requested improvements to Jules-generated frontend unit tests (PR #9), and reviewed and approved Jules-generated backend tests authored through Quincy's task (PR #13), merging approved suites to maintain test coverage and validate SQLite persistence.

EFOLIO – COLLABORATIVE FULL-STACK WEB PLATFORM Jan 2026 – May 2026
Academic Capstone Project | Full-Stack Developer & Client Liaison | React, Node.js, Express, MongoDB, REST APIs, Git

- Collaborated within a 3-developer Agile team across 3 client discovery sessions to translate stakeholder requirements into technical specifications, React UI components, and Express/MongoDB REST APIs.
- Contributed to a portfolio content-reporting feature with rate limiting, role-based restrictions, and notification controls through merged PR #76; performed manual API testing to verify endpoint integrity and access constraints.
- Participated in collaborative GitHub pull-request code reviews, defect triage, and branch integration across the team repository.

AI JOB SEARCH – AUTOMATED DATA INGESTION & NORMALIZATION PIPELINE (V1.0.0) 2026
Python Data Pipeline Project | Python, REST APIs (Adzuna), Pytest, JSON, Linux/WSL, Git

- Built a modular, deterministic Python data pipeline querying external REST APIs (Adzuna) to automate collection, parsing, and normalization of irregular job market records into structured Python data models without LLM dependencies.
- Implemented role alias matching algorithms and multi-criteria business filtering logic across location, role title, employment type, and work arrangement parameters.
- Engineered automated Pytest test coverage (18 tests) with mock network fixtures to validate job normalization, role matching, preference filtering, pipeline behavior, and graceful handling of HTTP request errors.

EDUCATION

Georgia Gwinnett College – Lawrenceville, GA Expected Dec 11, 2026
Bachelor of Science in Information Technology – Software Development Concentration | GPA: 3.83/4.00
Relevant Coursework: Software Development I & II (Java OOP), Data Structures & Algorithms, Database Systems (SQL), Systems Analysis & Design
Georgia State University – Perimeter College – Atlanta, GA Dec 2023
Associate in Science in Computer Science | GPA: 3.84/4.00