# Joseph Gabriel Castro

*Software Engineer / AI Agent Developer*

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## PROFESSIONAL OVERVIEW

Software Engineer with hands-on experience building full-stack applications and AI agents using React, Next.js, TypeScript, Node.js, Python, FastAPI, and LangChain. Completed a software engineering traineeship and developed projects covering authentication, application tracking, booking workflows, automated deployment, and AI agents with tool calling, document retrieval, and human approval controls.

## WORK EXPERIENCE

**Junior Software Engineer Trainee | Armada Logics, La Union Philippines** **June 2025 - Aug 2025**

- Developed multiple websites during a software engineering bootcamp using PHP, CodeIgniter, jQuery, HTML, and CSS.
- Built responsive layouts and interactive interfaces for desktop and mobile devices.
- Implemented server-side application logic and resolved functionality and layout issues across training projects.

## EDUCATION

Bachelor of Science in Computer Science (Cum Laude) | Tarlac State University, Tarlac Philippines Graduated: 2026

## PROJECTS

**UnderCover | Python, FastAPI, SQLite, LangChain, Pydantic, React, TypeScript, Vite, Tailwind CSS**

- Built a travel insurance claims prototype with REST APIs, SQLite persistence, and a React dashboard.
- Implemented a LangChain agent with tool calling, document retrieval, and fresh contexts for each claim.
- Added bounded retries and human approval controls for simulated payouts.

**Alpine Haven | React, Next.js, JavaScript, Tailwind CSS, Supabase, NextAuth.js**

- Built a responsive, full-stack booking platform with cabin filtering, date selection, and reservation management.
- Implemented Google OAuth authentication, session management, and authorization for guest accounts and reservations.
- Used React Server Components, server actions, and Supabase PostgreSQL for server-side rendering and data management.

**SubTrack | React, JavaScript, Tailwind CSS, Node.js, Express.js, MongoDB, Docker, GitHub Actions, Cloudflare**

- Built React dashboards and Express APIs for subscription management and spending analytics, with automated renewal emails using Upstash Workflows and Nodemailer.
- Implemented Google OAuth 2.0, JWT authentication, OTP verification, and password recovery, with Arcjet protection and endpoint rate limiting.
- Configured Ubuntu hosting with MongoDB in Docker and Cloudflare Tunnel as a systemd service, plus GitHub Actions for CI/CD.

## SKILLS

**Languages:** TypeScript, JavaScript, PHP, Python, Dart, C#, HTML, CSS
**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, FastAPI, Pydantic, Flutter, CodeIgniter, Tailwind CSS
**Databases & Platforms:** MongoDB, MySQL, PostgreSQL, MariaDB, Supabase, Appwrite, SQLite
**AI Tools & Frameworks:** Ollama, OpenRouter, LangChain, Deep Agents, Claude Agent SDK
**Developer Tools:** Git, uv, npm, Vite, GitHub Actions, Docker, Cloudflare, Vercel, Figma, Codex, pytest, Vitest, Playwright