

Jerson Pabillo

Senior Senior Full-Stack Engineer and Agentic AI specialist

SUMMARY

- Senior Full-Stack Engineer with 10+ years designing scalable SaaS platforms and agentic AI systems using Python, TypeScript, Node.js, and React.
- Expert in building tool-calling agents, RAG pipelines, and multi-step autonomous workflows leveraging LangChain, OpenAI, Claude APIs, and vector search.
- Proven track record in architecting robust backend services with FastAPI, PostgreSQL, MongoDB, and Docker, optimizing document processing time by over 50%.

TECHNICAL SKILLS

Main Technical Skills	Python (6 yr.), TypeScript (4 yr.), Node.js (4 yr.), React (4 yr.)
AI Tools & Assistants	Claude (2 yr.), Cursor (2 yr.)
Programming Languages	C#, Java, JavaScript (4 yr.), PHP (4 yr.), Python (6 yr.), TypeScript (4 yr.)
JavaScript Frameworks	AngularJS, jQuery (4 yr.), Next.js, Node.js (4 yr.), React (4 yr.), Vue.js (4 yr.)
AI & Machine Learning	Claude (2 yr.), LangChain (2 yr.), n8n (2 yr.), OpenAI (3 yr.)
Python Frameworks	Django (2 yr.), FastAPI (2 yr.), Flask (2 yr.)
PHP Frameworks	Laravel (4 yr.)
.NET Platform	.NET
Python Libraries and Tools	pytest (2 yr.)
Java Frameworks	Spring Boot (2 yr.)
Databases & Management Systems / ORM	MongoDB (2 yr.), MySQL (4 yr.), PostgreSQL (4 yr.), Redis (2 yr.), SQL
UI Frameworks, Libraries, and Browsers	Bootstrap (4 yr.), CSS (4 yr.), HTML (4 yr.), jQuery (4 yr.), Tailwind CSS
Cloud Platforms, Services & Computing	AWS (2 yr.)
Third Party Tools / IDEs / SDK / Services	Cursor (2 yr.)
Virtualization, Containers and Orchestration	Docker (4 yr.)

SDK / API and Integrations	FastAPI (2 yr.), GraphQL (2 yr.), RESTful API (6 yr.)
Version Control	Github Actions (4 yr.)
Operating Systems	Linux (2 yr.)
Web/App Servers, Middleware	Nginx (2 yr.)
QA, Test Automation, Security	pytest (2 yr.)
Platforms	WordPress (4 yr.)
Other Technical Skills	Agentic AI (2 yr.), Claude Code (2 yr.), LangSmith (2 yr.)

WORK EXPERIENCE

Agentic AI / LLM Engineer & Full-Stack Developer - Azeus Systems (Agentic AI and LLM powered SaaS products for corporate governance and enterprise knowledge search)

Duration: May 2024 – Apr 2026

Summary:

- Developed advanced agentic AI and large language model powered SaaS platforms focused on corporate governance, board meetings, document processing, and enterprise knowledge search
- These products automate complex workflows and improve enterprise document handling and knowledge retrieval

Responsibilities:

- Architected tool-calling agents for autonomous multi-step governance workflows across document-heavy enterprise processes.
- Built agent orchestration logic to plan, route, and recover from failed tool calls, enhancing task completion reliability.
- Designed and implemented RAG pipelines with embeddings, vector search, and retrieval filtering including source previewing.
- Created over forty production API endpoints handling data ingestion, metadata indexing, access control, logging, and asynchronous jobs.
- Established an LLM evaluation harness with curated datasets and prompt libraries to measure output accuracy and hallucination rates.
- Engineered production safeguards such as retry strategies, response validation, streaming output, and graceful fallbacks.
- Reduced average document processing time from nine to under four minutes through batching, caching, and task coordination.
- Developed reviewer-facing UIs in React and TypeScript for confidence scoring, workflow assignment, document previewing, and agent configuration.
- Modularized legacy services into decoupled domain services for stable delivery of new AI capabilities.
- Drove rapid delivery using Claude Code and Cursor while managing architecture, deployment, and system decisions.



Technologies: Python, FastAPI, Node.js, TypeScript, React, PostgreSQL, MongoDB, Redis, LangChain, OpenAI API, Claude, vector databases, Docker, AWS, GitHub Actions, GraphQL

Backend Developer & LLM Engineer - Accenture (Cloud-native backend services and AI automation tools for digital transformation)

Duration: Feb 2022 – Apr 2024

Summary:

- Delivered cloud-native backend services and early AI automation tools supporting digital transformation and application modernization programs for enterprise clients
- Focused on workflow automation, AI-driven business platforms, and integration of LLM capabilities

Responsibilities:

- Developed backend services in Python and Node.js for enterprise modernization programs involving workflow automation and AI business platforms.
- Built REST APIs for ingestion of customer records, workflow events, document payloads, and integration data.
- Delivered proof-of-concept LLM automation for document Q&A, email summarization, content categorization, and knowledge retrieval.
- Designed and optimized PostgreSQL and MySQL schemas, significantly reducing reporting query times.
- Integrated early OpenAI API workflows with reusable prompt patterns and structured output handling.
- Automated testing and deployment using Docker and GitHub Actions across multiple environments.
- Collaborated with frontend engineers to define API contracts, error handling, pagination, and response formats.

Technologies: Python, Node.js, Spring Boot, TypeScript, PostgreSQL, MySQL, OpenAI API, Docker, GitHub Actions

Python Backend Engineer - CGI (Backend services and integrations for enterprise consulting and cloud migration)

Duration: Mar 2020 – Feb 2022

Summary:

- Built backend services, APIs, and integrations to support large-scale enterprise consulting, systems integration, and cloud migration projects
- Focused on scalable and performant backend solutions

Responsibilities:

- Developed backend services using Python frameworks Django, Flask, and FastAPI.
- Implemented REST APIs for user account management, reporting, notifications, file processing, and third-party integrations.
- Optimized database queries and indexing to achieve sub-500 millisecond response times on high-traffic endpoints.
- Collaborated with business analysts and QA teams to translate requirements into tested, production-ready functionality.



Technologies: Python, Django, Flask, FastAPI, PostgreSQL, MySQL, Redis, REST APIs, Docker, Linux, Nginx, Git, Pytest

Full Stack Developer - Shore360 (Custom web applications, customer portals, CRM workflows, and business automation tools)

Duration: Sep 2014 – Jan 2019

Summary: Delivered fully integrated custom web applications and business automation tools for offshore client teams, including CRM workflows, admin portals, reporting dashboards, and customer-facing sites.

Responsibilities:

- Developed bespoke business tools replacing spreadsheet-driven operations with searchable dashboards.
- Designed responsive front-end interfaces and data entry forms to streamline operational workflows.
- Integrated third-party services such as payments, email, and mapping to automate client workflows.

Technologies: PHP, Laravel, JavaScript, React, Vue.js, jQuery, MySQL, HTML, CSS, Bootstrap, REST APIs, WordPress, Git

EDUCATION

- **Bachelor of Computer Science**
Taylor's University | Kuala Lumpur, Malaysia
2014

