Pedro Vicente

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TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EKS, Lambda, RDS, S3, IAM), Azure, DigitalOcean, Docker, CI/CD pipelines, Linux

Backend & Data: Node.js, REST APIs, Microservices, MySQL, MongoDB, Redis, Firebase, Supabase

Languages & Frameworks: Python, Java, C#, Kotlin, JavaScript, TypeScript, Swift, SQL, Flutter, Angular

AI & LLM: Agentic AI, Claude Code, MCP, RAG, GitHub Copilot, Claude API, OpenAI API, Embeddings, Vector Databases

WORK EXPERIENCE

BMO Capital Markets
Toronto, ON

QA Lead - Solution Architecture & Automation
Oct 2024 – Present

- Produced the high- and low-level designs (HLD/LLD) for a legacy-to-AWS replatform onto managed services with Enterprise Architecture and the Director of Architecture, adopted across the six-person Solutions Architecture team.
- Own solution delivery for 2 AWS platforms spanning 60+ services for 300+ internal users, defining component boundaries, data flow, and integration points while leading 2 engineers.
- Lead technical strategy for the Python automation framework, standardizing on Python over licensed Micro Focus UFT to cut tooling cost and widen the hiring pool, delivering 60+ automated validations for each production release.
- Built RAG-backed AI agents with AI Enablement (Python, Claude CLI, Copilot), embedding JIRA, Confluence, Zephyr, and GitHub data into a vector database to surface traceability gaps, automating 20+ validation checks.
- Partnered with Architecture and DevOps to define target-state AWS platform designs, translating application and non-functional requirements into deployment, integration, and data architecture across EKS/Fargate, Lambda, RDS, DynamoDB, S3, and Redshift.

QA Engineer
Sep 2022 – Oct 2024

- Engineered an automation framework with reusable REST, SQL, and application clients over a config-driven environment layer, cutting release testing from 1 week to 1 day.
- Enforced CI/CD release quality gates on a monthly production train, benchmarking Linux batch job runtimes release over release and blocking performance regressions before deployment.

Ascendence Foundry
Toronto, ON

Solutions Architect (Contract)
Jan 2026 – Feb 2026

- Defined the RAG and application architecture for a client's LLM solution, then led 2 apprentices through the development and delivery of an OpenAI-powered web application.
- Established an internal development environment across Google Cloud, GitHub, and Docker, configuring IAM roles and access boundaries to standardize team builds and client delivery.

Pocket Class
Toronto, ON

Solutions Architect (Contract)
Feb 2025 – May 2025

- Scoped requirements directly with client and business teams and built a distributed microservices architecture across payments, instructor, and student applications, shipped to production.
- Advised on platform strategy and infrastructure, choosing Firebase serverless over self-managed services and accepting vendor lock-in for near-zero operational overhead.

PROJECTS

Mole World: Real-Time Data-Intensive Multiplayer App

- Architected an 84-message WebSocket protocol on Node.js with server-authoritative state, room routing, and SQLite persistence; shipped to WebGL and iOS and operate the production backend.

EDUCATION

University of Toronto
Toronto, ON

Bachelor's Degree - Computer Science & Digital Enterprise Management
2022