

CARL ANTHONY LAR CARANDAN

Software Engineer

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PROFILE

Software Engineer with 2+ years building scalable full-stack applications and production-grade AI systems — including RAG-based knowledge bases, agentic AI assistants, and MCP integrations on AWS Bedrock. Shipped AI-driven developer tools that increased QA team productivity by 60% and drove early adoption of emerging frameworks (Strands Agents, AWS AgentCore, Nova Act). Strong expertise in React, Next.js, Node.js, TypeScript, AWS, and modern CI/CD pipelines.

PROFESSIONAL EXPERIENCE

GlobalTek BPO Inc

Makati, Metro Manila

Software Engineer I

Aug 2025 – Present

- Architected and shipped a RAG-based knowledge base for a support invoice-payment platform using AWS Bedrock Knowledge Bases, S3 Vectors, and a Strands-powered chat agent — enabling the support team to self-manage KB content (upload, edit, delete) consumed by the conversational AI in real time
- Built production agentic AI features with Strands Agents and AWS AgentCore (deployed via SST and CDK), including a chat-based PRD assistant for Product Managers leveraging multi-agent patterns, tool use, guardrails, and memory strategies
- Developed an MCP server for AI-assisted ticket management workflows, deployed on Cloudflare Workers to integrate generative AI into existing planning tools used across the team
- Integrated AWS Bedrock foundation models across multiple internal platforms for LLM inference and RAG capabilities, applying prompt-engineering best practices to reduce model spend while maintaining response quality
- Designed and launched an AI analytics and cost-monitoring dashboard tracking foundation-model usage across product lines, giving leadership real-time visibility into AI spend and enabling proactive cost controls
- Delivered a User Acceptance Testing platform and an internal sales-training transcription app from prototype to production, using spec-driven development and R&D on Mistral Voxtral / Whisper Large for speech-to-text pipelines
- Prototyped agentic browser automation with AWS Nova Act and shipped cross-platform executables (Windows, macOS) for internal R&D adoption; presented findings via demos at hackathons and onsite immersions

Software Development Engineer in Test – I

Dec 2024 – Jul 2025

- Led an AI-driven QA tooling initiative spanning US and India teams, increasing QA team productivity by 60% by accelerating ticket triage, test planning, and test case creation
- Shipped an AI-powered test case generation platform with integrated AI Ticket Analyzer, AI Test Case Generator, AI Prompt Engineering Toolbox, and AI Chat features — reducing manual triage and shortening QA feedback loops
- Automated end-to-end web tests with Playwright for critical user journeys, raising release confidence and catching regressions earlier in the CI/CD pipeline
- Balanced delivery across QA tooling and application development (70%) and test automation (30%), shipping both the platform features and the automation backbone consuming them

- Implemented full-stack features using MERN, Next.js, Preact, and Svelte across web and React Native mobile clients, delivering user-facing functionality aligned to product requirements
- Built CI/CD pipelines with GitHub Actions and deployed production workloads to Cloudflare Workers and AWS via SST, improving deployment reliability and release cadence
- Executed Agile SDLC in iterative sprints (planning, backlog refinement, standups, reviews, retros) to deliver features in close coordination with senior engineers

EDUCATION

BS Computer Science, Specialization in Software Engineering

Oct 2024

FEU Institute of Technology, Sampaloc, Manila — *Cum Laude*

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML, CSS, SQL

Frontend: React, Next.js, React Native, Preact, Svelte, TailwindCSS

Backend & Database: Node.js, Express, SST, MongoDB

AI / ML: AWS Bedrock (LLM Inference, Knowledge Bases, RAG), S3 Vectors, AWS AgentCore (Agentic AI), Strands Agents, MCP, Nova Act (Browser Agent), Prompt Engineering

Cloud & DevOps: AWS, Cloudflare Workers, Vercel, Render, GitHub Actions, SST, CDK

Authentication & Authorization: MSAL, AWS Cognito, AWS Amplify, Cerbos, NextAuth, BetterAuth

Testing & Quality: Playwright, Vitest, Sentry, SonarCloud, Husky, Biome

CERTIFICATIONS

- **ITS Java Certification** — Certiport, 2021
- **ITS Python Certification** — Certiport, 2021
- **CCNA: Introduction to Networks** — Cisco, 2022
- **DevNet Associate** — Cisco, 2022

AWARDS

- **Company Hackathon — 3rd Place** (Trajector, Aug 2025): Built agentic AI solutions addressing real business-process challenges
- **Best Intern Awardee & Best Intern Project** (GlobalTek BPO Inc, 2024)