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Experience

Valtech

Software developer

Bengaluru, India

Apr 2025 – Present

- Architected **CodeIQ**, an agentic **.NET** legacy modernization platform on a hybrid stack: **Google ADK** agents parse source via **Roslyn AST** (functions, namespaces, dependency graphs) into a structured context DB, which **Claude Code subagents** (Architect, Developer, Lead, Testing) then consume to plan and execute migration – compressing migration timelines from months to weeks (~**70% faster delivery cycle**).
- Designed the **multi-agent orchestration** layer with explicit role decomposition, handoff contracts, and shared context – enabling end-to-end modernization on **160K–200K LOC .NET Framework 4.8** repos and documentation/analysis at **500K+ LOC**.
- Engineered **token and context optimization** as a first-class design constraint – AST-extracted summaries, a **PostgreSQL-backed context store**, and selective re-prompting made enterprise-scale runs economically viable, where repeated full-source LLM passes would have been cost-prohibitive.
- Built a **TypeScript documentation engine** on Google ADK that surfaces security vulnerabilities, dead code, and undocumented modules across **100K+ LOC** – zero manual source-file review required.
- Built an **eval and validation framework** using ADK agents and **Browser-use** that extracts business rules from legacy code, auto-generates UI and unit test cases, and executes them against modernized apps – human-in-the-loop design cut manual validation effort by ~**90%**.
- Delivered a **SQL migration validation platform** via a **6-agent framework** running **400+ test cases** on **Microsoft Fabric Lakehouse** – cut per-table validation from **5 days to 1 day (~80%)**, projecting ~**3.8 person-years** saved across a 240-table platform.

Projects

CompareShop – Agentic Fashion Search Assistant

Python, LLMs, Agentic AI, React, Vercel

- Built an **agentic AI fashion search assistant** that lets users query **natural-language prompts** to discover dresses across multiple e-commerce sites – GitHub | Live Demo.
- Designed a chatbot workflow that translates user intent into structured database/search queries and aggregates **cross-source product results** in a single unified interface.

Agentic AI Orchestrator (RAG + Web Search)

Python, Ollama, LangChain, Tavily API

- Built an **agentic query router** that classifies user intent and dispatches to either a **RAG pipeline** or live web search via **Tavily API** – hybrid LLM reasoning over private documents and real-time information.
- Implemented a fully local **RAG pipeline** using **Ollama** and **sentence-transformers** (cosine-similarity retrieval) – zero dependency on paid APIs, enabling private, cost-free document Q&A.

Technical Skills

GenAI & Agentic AI: Claude Code, Claude Agents & Subagents, Claude Skills, Google ADK, LangChain, LangGraph, RAG, Multi-Agent Orchestration, Context Management, Token Optimization, Eval Design, Browser-use, LiteLLM

LLM APIs: OpenAI, Claude (Anthropic), Gemini, Llama

Languages: Python, TypeScript, SQL, HTML, CSS

Frameworks & Libraries: FastAPI

Databases & Infrastructure: MySQL, SQLite, VectorDB

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, System Design

Education

Dayananda Sagar College of Engineering

B.E. in Electronics & Telecommunication Engineering | CGPA: 8.2/10

Bengaluru, India

Dec 2021 – Jul 2025

Achievements

- Valtech Global AI Hackathon 2025: 1st Place** out of **500+ participants** – built and presented CodeIQ, an agentic .NET legacy modernization platform.
- Valtech Global AI Early-Access Team (1 of 12 engineers worldwide):** early access to emerging AI models and agentic frameworks to research and evaluate at scale.
- Claude On boarding for Valtech India QA:** designed and delivered curriculum adopted by **150+ QA engineers**.
- Anthropic - Claude Certified Architect: Foundations, Professional & developer-Foundations** (2026) – Verified Badge, Verified BadgeVerified Badge
- Google Generative AI Leadership Certification** (2025) – Verified Badge