

Oshadha Vimukthi

Full Stack and Applied AI Engineer | Agentic AI, LLM Applications, MCP, FastAPI, Next.js

Colombo, Sri Lanka | oshadhavjb@gmail.com | oshadha.com | linkedin.com/in/oshadhavimukthi | github.com/OshadhaVimuB

PROFESSIONAL SUMMARY

Full Stack and Applied AI Engineer and BSc (Hons) Computer Science undergraduate, certified as a Microsoft Azure AI Apps and Agents Developer Associate. Builds production AI products end to end: agentic workflows with Model Context Protocol (MCP), FastAPI and Next.js applications, PostgreSQL data layers, and AWS deployments with Terraform and CI/CD. Experienced in hallucination detection, PII masking and compliant data handling for reliable, responsible AI systems.

TECHNICAL SKILLS

AI and LLM: Agentic AI, LLM Applications, AI Workflows, Model Context Protocol (MCP), Claude API, OpenAI API, Azure AI Foundry, Hallucination Detection, PII Masking, Multi-Agent Reinforcement Learning

Languages and Frontend: Python, TypeScript, JavaScript, Next.js, React, Tailwind CSS, React Flow, Three.js, React Three Fiber, Zustand

Backend and Data: FastAPI, Node.js, PostgreSQL, Redis, Supabase, REST APIs, Server-Sent Events, OAuth 2.1, Microservices

Cloud, DevOps and Testing: AWS (EC2, RDS), Azure, Docker, Terraform, GitHub Actions CI/CD, Git, Playwright, Vitest, Jira, Figma

PROFESSIONAL EXPERIENCE

Software Engineer Intern, KAYA

Apr 2026 - Present

Colombo, Sri Lanka

- Build AI workflows end to end across frontend and backend, covering API design, database work, testing and deployment.
- Developed a hallucination prevention agent that keeps LLM generated summaries grounded in source content, with highlighted supporting evidence for traceability.
- Built a bias mitigation pipeline that masks PII and bias-related attributes before LLM evaluation, with judge validation, retry handling and safe failure when dependent services are unavailable.
- Implemented PII removal and data retention policies across agentic workflows for compliant data handling.
- Delivered workflow configuration features (role-based assignment, flow locking, time zone aware scheduling, automated stage progression) and resolved production issues across third-party sync, dashboards, ranking logic, notifications and multi-tenant authentication.

PROJECTS

Worfilo, Founder, Solo Designer and Engineer | worfilo.com

Sep 2026 - Present

Visual editor for AI agent workflows: describe a workflow in plain language or wire it on a canvas, run it live, replay any run and ship it as an API. Live in early access.

- Built a React Flow canvas editor and async FastAPI execution engine with branching, parallel branches, retries, timeouts and live per-node status streamed over resumable Server-Sent Events.
- Implemented Claude API workflow generation that drafts a validated JSON graph, plus run replay and single-node testing for fast prompt iteration.
- Shipped an MCP server so coding agents (Claude Code, Cursor, VS Code) can build, test and publish workflows over OAuth 2.1 with PKCE, with versioned publishing, cron triggers and a scoped workflow API.
- Built a PII masking service (checksum validated recognizers, GLiNER) with Fernet encrypted secrets and SSRF protection.
- Deployed on AWS (EC2, RDS PostgreSQL) with Terraform and GitHub Actions CI/CD, backed by 175 backend tests and a Playwright end-to-end suite.

Tech: Next.js, TypeScript, React Flow, Zustand, FastAPI, PostgreSQL, Redis, Claude API, MCP, Docker, Terraform, AWS

Vibefilo, Founder | vibefilo.dev

Oct 2026 - Present

Security and GDPR checks for vibe-coded apps that run inside coding agents (Claude Code, Cursor, Codex), so source code never leaves the developer's machine.

- Built an MCP server and npm CLI that detects installed coding agents, connects them in one command and signs users in through a browser device code flow.
- Designed checks for common vibe-coded app gaps, including Supabase RLS issues, leaked secrets in client bundles, unauthenticated API routes, analytics loading before consent and missing account deletion.
- Implemented verified fixes that only close after a re-check passes, with a shared team dashboard, readiness score and Markdown reports saved in the repo.
- Designed a pay-per-check credit model with Lite, Normal and Full check depths and no subscription.

Tech: TypeScript, Node.js, Model Context Protocol (MCP), Claude Code, Supabase

ArchionLabs, Full Stack Developer, Team of 6 | archionlabs.com

Sep 2025 - Mar 2026

Hult Prize IIT Finalist. Browser-based AI platform that turns a text prompt or uploaded plan into a 3D building, simulates pedestrian movement and audits the design against Sri Lankan UDA building regulations.

- Built the text-to-floor-plan service where the Claude API parses prompts into room requirements and a packing-based layout solver places rooms, with conversational editing and vision-based extraction from image and PDF plans.
- Developed a canvas-based 2D floor plan editor running at 60fps with ISO standard architectural symbols and undo and redo history.
- Built the multi-agent reinforcement learning (MARL) behaviour engine for pedestrian simulation, streaming frames to a React Three Fiber 3D view over Server-Sent Events.
- Designed independent FastAPI microservices with Supabase JWT auth, Docker deployment and GitHub Actions CI/CD.

Tech: Next.js, React, Three.js, React Three Fiber, FastAPI, PostgreSQL, Supabase, Claude API, Docker, Nginx

EDUCATION

BSc (Hons) Computer Science, University of Westminster

Sep 2024 - Present

Delivered at the Informatics Institute of Technology (IIT), Colombo, Sri Lanka

CERTIFICATIONS

Microsoft Certified: Azure AI Apps and Agents Developer Associate (AI-103)

Oct 2026

Microsoft | Verify at learn.microsoft.com/credentials (Oshadha Vimukthi, 8594C25086026021)