

MUKESH MOHANTY

Senior Software Engineer, Full Stack & AI-Integrated Cloud Platforms

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PROFESSIONAL SUMMARY

Full-stack software engineer with 5+ years of experience across React, Node.js, and Fastify, building and helping lead delivery of secure, cloud-native web platforms. I've integrated AI and LLM-powered features into production systems, worked extensively with GCP infrastructure and third-party API integrations, and taken security seriously, from access-token management to ethical-hack remediation and Vault-based secrets. I like owning things end to end, from architecture and stakeholder conversations through to DevOps and mentoring, and I work well in fast-paced, cross-functional teams.

EXPERIENCE

Software Engineer | Lloyds Technology Centre, Hyderabad, India

August 2025 – Present

- Contributed to the React-based Pension Options Customer Web App (CWA), implementing the first module-federation-based micro frontend in the SW App to enable independent release and maintenance.
- Led integration with a third-party financial data API and configured GCP 2.0 infrastructure (WSS proxy, HashiCorp Vault) for backend services, partnering with security engineering on access-token management.
- Drove ethical-hack testing for the Pension Options journey with Shared Engineering, prioritising and shipping fixes, one of which was flagged and resolved across multiple apps company-wide.
- Strengthened team testing and DevOps practices by implementing MSW across the drawdown and pension journeys and upskilling in Kubernetes/Helm.
- Built and shipped Copilot-compatible skills and agents for internal frameworks, released as an internal npm package for wider team adoption.

Senior Software Engineer | Mitsogo Inc, Chennai, India

August 2021 – August 2025

- Engineered and deployed a cloud-native Node.js/Fastify.js microservice supporting 100,000+ users, with OAuth authentication integrated across GSuite, Azure, and Okta.
- Developed a seamless cross-platform enrollment flow spanning iOS, macOS, Windows, and Android, improving onboarding across device types.
- Built a high-performance React application using MUI, including a custom-optimized Tanstack Table component that reduced overall bundle size by 10%.
- Designed and implemented an application-wide authorization system enabling dynamic, config-driven access control.
- Delivered 800+ automated end-to-end tests with Playwright, significantly improving reliability and maintainability of the enterprise product.
- Revamped a Unified Endpoint Management (UEM) web application using EmberJS and OrbitJS, improving data caching, performance, and user experience.

PROJECTS

Persona AI | <https://persona-ai-web-tan.vercel.app/>

Repo: github.com/mukeshmohanty623/persona-ai

- Built an AI-powered chatbot enabling conversations with distinct AI personas, each with a tuned voice and teaching style derived through transcript analysis and prompt engineering.
- Designed a multi-step Chain-of-Thought pipeline (INITIAL → THINK → ANALYSE → OUTPUT) using structured JSON responses from GPT-4o, improving response quality and enabling live 'thinking' visualization in the UI.
- Implemented Server-Sent Events (SSE) streaming for real-time response delivery with per-persona, isolated conversation history.
- Stack: Astro 6, React 19, shadcn/ui, OpenAI GPT-4o, Turborepo.

GitHub Clone | <https://gitclonehub.vercel.app/>

Repo: github.com/mukeshmohanty623/github-clone

- Developed a NextJS web application cloning the GitHub repository tree page.
- Utilized Shadcn-UI, NextJS, Tailwind, React, and Markdown.

SKILLS

Languages: JavaScript, TypeScript, Python

Frameworks: React, Ember.js, Next.js, Express.js, Fastify.js, Node.js, Tailwind

AI / LLM: OpenAI SDK, Prompt Engineering, Chain-of-Thought Pipelines, SSE Streaming, memo, Google Model Armor, Inngest, Firecrawl, GitHub Copilot Agents/Skills

Cloud & DevOps: GCP, Docker, Kubernetes, Helm, Jenkins, Harness, HashiCorp Vault, SonarQube

Web & APIs: HTML, CSS, REST API, JSON:API, OAuth, WebSockets, Module Federation (Micro Frontends)

Testing: Playwright, MSW, Jest, QUnit, Unit/Integration/E2E Testing

Databases: PostgreSQL, MongoDB

EDUCATION

B.E. in Mechatronics Engineering

Kongu Engineering College, Erode, India

August 2017 – March 2021 | CGPA: 8.9