

CHANDAN H

+91-9591889862 | chandan.com | chandanh.mailbox@gmail.com | github.com/mr-chandan | [Linkedin](#)

SKILLS

- JavaScript | TypeScript | C++ | C | MySQL | Node | Express | React | Redux | NoSQL | Git
- AWS | GCP | Cloud Computing | CI/CD | Langchain | Shadcn/ui | Docker
- Microservices | gRPC | Frontend | Backend | Full-Stack | RESTful APIs | System Design

EXPERIENCE



Variabl - Full Stack AI Developer

Bengaluru / In-office | Feb 2026 - Present

- Architected a multi-agent AI assistant on **Google ADK** an orchestrator routing to 15+ specialist agents (invoicing, payments, GST, income, treasury, TAX and more) with real **function tool-calling**, **human-in-the-loop** confirmations, and **generative-UI cards** streamed to the client over a first-party **SSE/AG-UI pipeline**.
- Engineered end-to-end **GST compliance** and **automated filling**, including in chat **GSTR** filing a **code driven state machine** secure **GCS document storage** with **government compliance** and admin review APIs.
- Shipped a multi-channel notifications **microservice - webhook** handling with signature verification, daily quota enforcement, and month-end reminder nudges. Integrated **YouTube**, **Zerodha Kite (MCP)**, and **Google Calendar** via **OAuth**.



Turmitech - Full Stack Developer

Canada / Remote work | Sep 2026 - Mar 2026

- Migrated **REST APIs** to **gRPC** across **microservices**, implemented **load balancing**, and improved **inter-service communication** speed.
- Built event-driven systems including **Google Pub/Sub** notifications, delivery route optimization, and **AI-powered recommendations**.
- Designed **CI/CD pipelines** with **Bitbucket** and **Docker**, implementing secure **auth flows**, scalable checkout/billing systems, and performance-optimized infrastructure.
- Integrated **Stripe platform** and **connected accounts** for marketplace payments and recurring subscription billing, and secured the APIs with **JWT access** and **Redis-backed refresh tokens** across 45+ migrate-mongo database migrations.



Overtly - Full Stack Developer

Bengaluru / Remote work | Jun 2025 - Dec 2025

- Developed **Python** backend for **AI-powered** news intelligence platform processing **real-time** news from 15+ sources .
- Built **AI agent** system using **LangChain** and **OpenAI APIs** for **automated research**, insights generation, and intelligent chat responses.
- Implemented **vector-based ML** with **Pinecone** for **semantic article search**, **topic modeling**, and **content categorization**.
- Created social media **listening services** for Twitter, Reddit, and Bluesky to track trends and **sentiment analysis**.
- Designed a scalable news discovery **pipeline** that automatically finds, organizes, and categorizes news content using **Flask**, with **Firebase** and **cloud storage** for managing journalist profiles, news feeds, and **search keyword configurations**.



Pixelayers - Full Stack Developer

Bengaluru / Remote work | Feb 2024 - May 2025

- Architected and developed an enterprise-grade **Next.js 14** application with **TypeScript**, featuring dynamic dashboards and real-time analytics integration using **Umami.js**.
- Developed reusable utilities and pipelines integrating **web scraping**, **social media APIs**, and **cloud services**. Streamlined deployment with **Docker**, optimized performance with advanced **caching**, and ensured scalability using **DynamoDB**.
- Built modular service components for **data processing**, **content discovery**, and **user interaction**, leveraging tools like **Firebase**, **Pinecone**, and **NewsAPI**.
- Developed **RESTful APIs** and integrated advanced AI frameworks like **LangChain** and **OpenAI APIs** to enhance application intelligence.
- Implemented cloud infrastructure on **Google Cloud Platform**, managing **deployment pipelines** and **authentication services**.



Heeblo - Full Stack Developer

Australia / Remote work | Sep 2023 - Dec 2023

- Collaborated within a **4-member cross-functional team** to develop a **Next.js admin dashboard** with dynamic data visualization.
- Architected and deployed **Firebase Cloud Functions** for real-time notifications, driving a 30% increase in user engagement

PROJECTS

Quix.ai - Academic life Tool (Next.js, Firebase, Edge functions, Vercel-ai sdk, Node js, Open-ai Api, Typescript, Tailwind, Shadcn/ui)

- Engineered a **SAAS** product featuring an **AI-powered Classroom** which seamlessly allows users to create assignments effortlessly from

diverse input sources, including **PDFs, texts, and external links** and helps manage students.

- Implemented **GPT-based automation** for streamlined assignment **auto-correction** and **Firestore** for **secure user profile storage**.
- Leveraged **server-side rendering (SSR)** and **Vercel Edge Functions** Optimizing **performance** and **scalability**.

PiDeploy - Mini Platform-as-a-Service (Node.js, Express, Docker, Nginx, JWT, Redis , Docker , Ink/React CLI)

- Built a lightweight **PaaS** that deploys full-stack apps (React + Node.js) from a GitHub repo URL with a single CLI command.
- Developed an CLI tool using **Ink** with commands for **authentication, deployment, app management, and real-time deploy** status.
- Built a deployment **pipeline** that clones repos, validates structure, builds frontend assets, and runs backend in isolated **Docker containers**
- Implemented **Nginx reverse proxy** configuration to serve static frontend files and **proxy API** requests to **containerized backends** with automatic port allocation.

CodeSphere - Scalable Code Execution app (React, Node.js, AWS S3, CloudFront, API Gateway, EC2, SQS, DynamoDB, Cloud9)

- Developed a full-stack application with frontend hosted on **S3** and delivered via **CloudFront**, backend managed with **API Gateway, EC2 instances, and Elastic Load Balancer** for efficient traffic distribution.
- Implemented **SQS** for message queuing and **EC2 worker nodes** for code execution, with results stored in **DynamoDB**.
- Ensured secure and scalable deployment using **Route 53** for DNS management, and **Cloud9** for development and monitoring.

ROS-2 AI Drive - Autonomous Robot Navigation with Gemini Vision (ROS2, Python, C++, Prompt Engineering)

- Built an autonomous navigation robot that streams live camera frames to **Google Gemini** and converts the model's scene reasoning into **ROS2 Twist/geometry commands**, replacing hard-coded vision pipelines with multimodal reasoning.
- Designed a **perception → reasoning → control** loop that turns raw visuals into directional actions in a single continuous flow, removing the need for maps or geometric path planning.
- Engineered a **prompt-engineered parser** that extracts direction, speed, and a confidence score from the model output, with a **safety-validation layer** that checks every command before actuation.
- Authored a **research paper** (ROS2-Diff AIDrive) detailing the LLM-driven, multimodal navigation architecture and its advantages over traditional vision-only systems.

Meme the Map - Location based Meme Sharing Platform (Next.js, TypeScript, Postgres, react-simple-maps, d3-geo, Tailwind)

- Built a real-time map where users post and discover memes pinned to locations — **Next.js + Supabase**, an interactive vector map via **react-simple-maps / d3-geo**, and client-side image compression.
- Scaled under a coordinated raid that drove **500k+ requests, 2,500+ images, and 2,000+ unique visitors**, with real-time abuse hitting the platform.
- Shipped a **moderation queue, reports/flags, up/down-votes, and rate limits** live under traffic, and **stress-tested the database** to keep the site responsive.
- Relunched on a **GIPHY-only pipeline** (no user uploads) to eliminate abuse while preserving the core experience.

LLMGate - Multi-tenant LLM Gateway (TypeScript, Node.js, Fastify, SQLite/Postgres, Docker, Prometheus)

- Built a multi-tenant gateway exposing one **OpenAI-compatible endpoint** in front of multiple providers (**OpenAI, Claude, Gemini, Groq**) with automatic **failover and circuit breakers**.
- Implemented per-tenant **authentication, budgets, and rate limits**, plus an admin API for tenant and API-key management.
- Added resilience and cost controls - **retries, timeouts, graceful degradation, and response caching (24h TTL)** for deterministic requests, with a chaos provider for failure-injection testing.
- Instrumented full observability with **Prometheus metrics, structured JSON logs, and audit trails**; fully **Dockerized** with Docker Compose.

Robotic Arm - 4-DOF Arm Simulation with MoveIt2 (ROS2, MoveIt2, C++, Python, CMake)

- Built a **ROS2 4-DOF robotic-arm** simulation with **MoveIt2** for motion planning and control.
- Defined the arm's **robot description (URDF)** and configured the MoveIt2 planning pipeline for collision-aware trajectories.
- Implemented **inverse-kinematics** trajectory planning and execution, wiring **C++/Python ROS2 nodes** for joint actuation in simulation.

EDUCATION

Masters Degree @ St Joseph's University

Masters in Computer Science- CGPA: 8.1

Jun 2024 - Feb 2026