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Personal Projects

Rosse

[rosse.ai](#) 

- Digital life aggregation platform that continuously ingests notifications and consolidates your entire digital presence — accounts, services, and data — into a single unified dashboard.
- Built with Hono as a lightweight, multi-runtime web framework and Vite for fast frontend builds. Uses Trigger.dev for durable workflow orchestration to reliably ingest and process notifications across services. Leverages Mastra.ai to power AI agents for intelligent notification categorization and contextual insights.

Plusma

[plusma.ai](#) 

- A platform that transforms ideas and concepts into interactive, shareable demonstrations and prototypes. Forked and extended OpenCode — an open-source AI coding agent — to power the core code generation engine.
- Built with TanStack Start for a type-safe, full-stack React framework with SSR and server functions. Uses E2B and Modal interchangeably as sandbox providers based on availability — E2B for secure, sub-200ms Firecracker microVM code execution, and Modal for scalable GPU-accelerated AI workloads and batch processing.

Mona Money

[monamoney.co.uk](#) 

- AI-powered wealth coach that provides personalized wealth management guidance and financial advisory services.
- Built with Expo for cross-platform mobile development (iOS, Android, and web) from a single React Native codebase. Uses Hono as the backend web framework, Mastra.ai to orchestrate AI agents for personalized financial coaching workflows, and Vercel AI-SDK for streaming AI responses and seamless multi-provider model integration.

Professional Experience

Senior Software Engineer *Ticmint*

Remote, May 2024 – Present

- Lead Engineer responsible for designing and implementing agentic systems and AI-powered features across Ticmint's white-label ticketing platform.
- Key Engineering Contributions & Achievements:
 - Architected and implemented a novel dashboard-wide AI Assistant featuring an agent-graph, designed to provide contextual navigation support, dynamic coachmarks, and automated form completion, directly enhancing user efficiency and onboarding
 - Initiated and currently lead a significant architectural restructuring effort leveraging modern tools like Nx for monorepo management, OpenAPI Codegen for efficient API integration, Shadcn UI for consistent design, and Playwright for robust end-to-end testing, aimed at boosting scalability, maintainability, and developer productivity.

Software Engineer *Materno*

Remote, Feb 2024 – May 2024

- Materno is a digital health platform providing remote pregnancy management, including e-consultations and vital tracking. It supports personalized care for conditions like gestational diabetes and hypertension.
- Architected and developed various features of the core product.
- Restructured the codebase for performance optimizations, enhancements, and improved developer experience.
- Drafted and executed the strategy for migrating the frontend codebase from JavaScript to TypeScript.

Frontend Engineer *Tanium Inc.*

Remote, Dec 2022 – Feb 2024

- Tanium is a cybersecurity and systems management company offering a platform for real-time endpoint visibility and control. It provides organizations with tools to manage and secure IT environments at scale.
- Worked under Uplers team to help rearchitect the tanium.com website from scratch using React, TypeScript and Next.js to serve 200k+ users per month.
- Maintained and integrated legacy systems, including the older tanium.com website and CMS to ensure a smooth transition without service interruptions.
- Ensured that the team adhered to proper coding style, design patterns, and best practices.

Co-Founder *Lightbear Co.*

Remote, Nov 2021 – Dec 2022

- Built a learning management system with a backend using Node.js, Sequelize, MySQL, and AWS, and a frontend using React, Redux, Bootstrap, and Axios. Implemented CI/CD using GitHub Actions.
- Developed an ERP system managing 10,000+ daily transactions, using TypeScript, React, AdonisJS, GraphQL, MySQL, and MeiliSearch, transforming business processes and reducing workload.

Full-Stack Engineer (Contract) *The Times Group*

Remote, Nov 2021 – Mar 2022

- Built and deployed multiple landing pages using React.js, TypeScript, and MUI.
- Integrated the lead tracking system with Google Analytics.

Full-Stack Engineer *Northern Group of Industries*

Srinagar, IN Feb 2019 – Oct 2021

- Utilized Node.js, Express and MongoDB to build a robust and scalable GraphQL API for the company's in-house ERP with features like accounting, inventory, HR and analytics.
- Developed the frontend using React and Bootstrap for modern web development.

Education

Queen Mary University of London *MS, Artificial Intelligence*

London, UK Present

- **Relevant Coursework:** Conversational Agents and Dialogue Systems, Natural Language Processing, Statistical Planning and Reinforcement Learning

Indian Institute of Technology, Madras *BS, Data Science (Part Time)*

Chennai, IN Present

- **Relevant Coursework:** Machine Learning, Advanced Algorithms, Database Systems, Modern Web Development
- **Achievement:** Achieved 1588 rank (96th percentile) among 40,000+ candidates in the Graduate Aptitude Test in Engineering (GATE)

Islamic University of Science and Technology *BTech., Computer Science and Engineering*

Awantipora, IN Completed

- **Relevant Coursework:** Machine Learning, Advanced Algorithms, Database Systems, Modern Web Development

Skills

AI & Machine Learning:

- *Advanced:* LangGraph, AI-SDK (Vercel), Mastra, Trigger.dev, OpenAI API, Anthropic Claude API, AI Agents, Multi-Agent Systems, Agent Orchestration, RAG (Retrieval-Augmented Generation)
- *Intermediate:* LangChain, Llama Index, Temporal, Hugging Face Transformers, TensorFlow, PyTorch
- *Familiar:* Pinecone, Chroma, Weaviate (Vector Databases), Fine-tuning, Prompt Engineering

Languages:

- *Advanced:* TypeScript, JavaScript, Python, HTML/CSS, SQL
- *Intermediate:* C/C++
- *Familiar:* Java, PHP

Frontend:

- *Advanced:* React.js, Next.js, TanStack Start, Expo, React Native, AI-SDK Integration, Streaming AI Responses, Real-time AI Chat, Redux, Recoil, Tailwind CSS, MUI, Shadcn/UI
- *Intermediate:* Bootstrap, Vue.js

Backend:

- *Advanced:* Node.js (NestJS, Express.js), Hono, Trigger.dev, Flask, FastAPI, AI Model Serving, OpenAI API, Anthropic API, Mastra Framework Integration
- *Intermediate:* Django, Firebase, GraphQL, Serverless AI Functions

Databases:

- *Advanced:* PostgreSQL, MongoDB, Redis, Vector Databases (Pinecone, Chroma), Elasticsearch, MeiliSearch, Embedding Storage, Similarity Search
- *Intermediate:* DynamoDB, Firebase Realtime Database, Knowledge Graphs

Cloud & DevOps:

- *Advanced:* AWS (SageMaker, Bedrock, Lambda), E2B, Modal, Azure OpenAI, OpenAI Platform, Model Deployment, AI Agent Hosting, Serverless AI Architecture
- *Intermediate:* Docker, Kubernetes, MLflow, Weights & Biases, Google Cloud AI

Testing & Automation:

- *Advanced:* AI Model Testing, Agent Behavior Validation, LLM Evaluation Frameworks
- *Advanced:* Jest, Cypress, AI Response Testing, Prompt Testing
- *Intermediate:* Playwright, Puppeteer, A/B Testing for AI Features

CI/CD & Tools:

- *Advanced:* GitHub Actions, Continuous AI/ML Deployment, Model Versioning, Agent Development Workflows, LLM Fine-tuning Pipelines
- *Intermediate:* MLOps Pipelines, AI Model Monitoring, CircleCI, Jenkins