

Karthik M

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Portfolio | GitHub

EDUCATION

MVJ COLLEGE OF ENGINEERING

- Bachelor of Technology - Data Science; GPA: 8.95

Bengaluru, India

August 2023 - August 2027

SKILLS

- Languages:** JavaScript, Java, TypeScript, Python, SQL, C++, Rust
- Frameworks:** Node.js, Scikit-Learn, PyTorch, Ethereum, Algorand, Stellar, Django
- Tools:** Docker, Git, MySQL
- Platforms:** Windows, GCP, AWS
- Soft Skills:** Leadership, Event Management

EXPERIENCE

- Startup Haven** Remote
 - Full Stack Developer (Intern)*
 - Web Scraping and Data Pipeline:** Engineered an end-to-end web scraping and data pipeline using FastAPI on AWS Lambda, Cognito auth, SQS-based async jobs, and rotating proxies to safely collect structured product data from commercial grocery sites.
 - Data Modeling and Monitoring:** Designed a DynamoDB schema with per-user partitions and a date-based GSI so the data is normalized and analytics-ready, and built an admin dashboard for daily scrape monitoring.
 - Production Reliability Automation:** Automated production reliability with EventBridge schedules and SES/SNS alerts for missed scrapes, taking the system from collection to production with minimal operations overhead.

PROJECTS

PrizeVault - AI-managed Stellar hackathon prize escrow Official Link | GitHub

- Multi-signature Escrow Workflow:** Built a Stellar-based hackathon prize escrow platform where sponsors and organizers jointly control fund release via a 2-of-2 multi-signature workflow, improving payout transparency and trust.
- Automation and Frontend Integration:** Developed TypeScript automation scripts and a React/Freighter-integrated frontend to handle escrow creation, deposits, approval-gated winner payouts, and agent-assisted release operations on testnet.

Ciphers - Decentralized Academic Credential System Official Link | GitHub

- Privacy-Preserving Credential Workflow:** Built an end-to-end SSI platform for academic credentials with role-based flows for issuer, holder, and verifier, using W3C Verifiable Credentials, DID-based identity, BBS+ signatures, and selective disclosure to improve trust and privacy.
- Decentralized Verification and Storage:** Integrated React frontends and Node/Express services with decentralized storage (IPFS/Arweave) and blockchain anchoring (Polygon Amoy) to support credential issuance, encrypted storage, proof generation, revocation checks, and recruiter-side verification.

VentureCore - AI Decision Intelligence Platform Official Link

- Founder-Aligned Decision Engine:** Built an AI decision platform that captures founder principles and applies them to budget, hiring, product, and partnership decisions for faster, consistent team execution.
- Policy + Audit Intelligence:** Designed a multi-agent workflow with policy enforcement, risk analysis, and searchable audit trails so every decision is compliant, explainable, and easy to review.

RealChat - Multi-room messaging platform GitHub

- Real-Time Multi-Room Chat Platform:** Built a Supabase-powered chat application where users can create and join rooms, exchange instant messages, and track online presence in real time, improving communication speed and user engagement.
- TypeScript + React Frontend with Secure Backend:** Developed a Vite/React/TypeScript frontend integrated with Supabase Realtime and Row Level Security, handling room management, live message sync, and active-user updates with a modern responsive UI.

HONORS AND AWARDS

- Winner at PixelGenesis Hackathon, MVJ College of Engineering, 2025
- Winner at HackSpark Aurora Tech Fest, Dayanand Sagar Academy of Technology and Management
- Winner at Cepheus 2.0, Atria Institute of Technology, 2026
- Winner at Express Launchpad, Nexla/ExpressDev, 2026
- Awarded the title "Best Startup Innovation" by The Residency Bangalore (sponsored by Claude and Dodo Payments)