

MILAD TSX

Senior Backend Engineer – Systems Reliability & Security

[Email](#) · [GitHub](#) · [Website](#) · Location (UTC+3)

PROFESSIONAL SUMMARY

In my last roles I helped run and improve systems that managed real money at scale: safeguarding around \$4M in client assets on-chain with zero security incidents, cutting cloud costs by about 60% without hurting performance, and scaling a real-time backend to handle thousands of concurrent users.

I like owning a system end to end, and making it solid and predictable over time.

At previous companies I worked closely with founders, product teams, auditors and non-technical stakeholders to turn requirements into working, secure services, and to document them so other engineers could easily build on top.

KEY OUTCOMES

- Cut cloud costs by ~60% by simplifying and right-sizing AWS backend architecture, without hurting performance or user experience.
- Increased reliability in a high-traffic SaaS from ~65% to 92% and scaled throughput ~10x so the product could handle real growth.
- Helped safeguard ~\$4M in client funds on-chain over 3 years with zero security incidents and strong external audit scores.
- Saved an estimated ~\$50K+ in outsourcing and agency spend by taking on backend, infra, and security work in-house so projects could move forward without external vendors.
- Shipped multiple MVPs from idea → production as founding engineer / technical founder, working directly with non-technical stakeholders to refine scope and trade-offs.
- Reduced gas fees by ~99% for a critical blockchain action users relied on.

FOCUS AREAS

Backend & Systems Reliability · Scalability & Performance · Cost Optimization ·
Security · End-to-End Ownership

WORK EXPERIENCE

Senior Backend Engineer – Financial System & Security

[VENT Finance](#) – DeFi | Digital Asset Investment & Launch Platform

Nov 2021 – Jun 2024

- Safeguarded roughly \$4M USD of client assets on-chain over 3 years with zero security incidents by maintaining and improving high-stakes smart contracts and backend services.
- Cut monthly cloud infrastructure costs by ~60% by simplifying AWS architecture, removing waste, and tuning services so the platform stayed fast while the bill dropped.
- Reduced the cost of a key on-chain operation by ~99% by redesigning the Ethereum workflow (batching and verification), making the feature affordable to run at scale.
- Introduced automated testing and deployment (CI/CD) to reduce manual errors and release friction, so the team could ship safely and more often.
- Helped the product achieve a 9/10 external security audit score by building with security in mind from the start and working closely with auditors to address findings.

Senior Backend Engineer – Scalability & Reliability

Revision – Trivia Mobile Gaming Studio

Feb 2020 – Jul 2021

- Scaled backend throughput by ~10x, allowing the game to handle thousands of concurrent players without increasing hosting costs.
- Improved resilience so critical outages could be recovered in seconds instead of minutes, reducing impact on live games and support.
- Built a data analysis pipeline that flagged ~10% of user activity as likely fraudulent, working with product and operations to reduce abuse without hurting honest players.
- Collaborated with mobile and product teams to prioritize performance fixes that had the biggest impact on user experience and reviews.

Senior Backend Engineer | Founding Engineer

[BugDash](#) – Crowdsourced Cybersecurity Platform

Feb 2019 – Sep 2019

- Took the platform from idea to live product in 8 months, owning architecture, backend, and integrations end-to-end.
- Implemented clear auditability and reporting features to meet regulatory expectations and build trust with early customers.
- Worked closely with the founder and early users to refine the feature set, translating security requirements into a product the dev teams could actually use.

Software Engineer – Junior

[Saman Bank](#) – Core Banking System | TradFi

Nov 2017 – Jul 2019

- Contributed to the bank's core system from MVP to Version 1, building three subsystems on an ASP.NET / C# + Oracle / DB2 stack and learning to work in a large, regulated finance environment.

SELECTED PROJECTS

Co-Founder – AI + Crypto

[DCPay](#) – AI-powered Community Engagement Quest platform Jan 2026

- Built a demo for investor pitch in 10 days
- Extracted requirements, Architected and Implemented a secure and scalable platform ready to support the 5000 waitlisted users.
- Integrated with third-party services (KYC, Generative AI, GCP) to accelerate delivery

Founder – AI + Crypto

[DCPay](#) – Autonomous Crypto Payment System Oct 2025

- Built an autonomous backend system for crypto payment acceptance with on-chain detection, verification, and settlement handled in-house.
- Reduced reliance on third-party payment processors by running critical verification and settlement paths internally.
- Designed the system to fail closed, prioritizing correctness and reliability in automated financial workflows.

Founder – Edge ML for Physical Security

[Shahin](#) – Physical Security Monitoring System Sep 2025

- Built an offline-first, CPU-only computer vision system to detect and record car traffic for a housing estate, avoiding the need for cloud inference.
- Enabled fast, accurate custom reporting via on-device ML, so non-technical staff could answer “who entered when?” without digging through raw footage.
- Worked with local stakeholders to define what “useful security data” meant and adjusted the system and reports to match real-world needs.

Founder – Web3 app

[dTip](#) – Decentralized Donation Platform Oct 2024

- Identified a gap in transparent, non-custodial crypto donations and built an open-source dApp as a weekend project.
- Shipped an end-to-end MVP integrating smart contracts with a simple web frontend so donors and recipients can see funds move on-chain in real time.

Education

- M.Sc. Software Security – Thesis: Distributed Intrusion Prevention Systems
- B.Sc. Software Engineering

Certifications

- Autonomous AI Agent Development Framework – OLAS 2024
- Certified Ethical Hacker 2019

Technical Skills

Languages & Runtime:

Node.js · TypeScript · JavaScript · Python · Rust · C#, Java, Go

Backend & Frameworks:

Nest.js · Express.js · REST APIs · WebSockets · Microservices · Serverless

Frontend:

React · Next.js · HTML · CSS · Tailwind

Databases & Data:

PostgreSQL · MongoDB · Firebase · Redis · SQL · NoSQL · Query optimization · Replication

Cloud & Infra:

AWS · Lambda · API Gateway · S3 · CloudFront · GCP · Cloud Run · Docker · CI/CD · GitHub Actions · Linux · Nginx · RabbitMQ · Kafka

Observability & Reliability:

Monitoring · Logging · Alerting · Incident response · High availability · Disaster recovery · Performance tuning · Caching & database optimization · Grafana · Prometheus · OTEL/OpenTelemetry

Security:

Application security · SecDevOps · Static analysis · Threat modeling · Cryptography basics · Vulnerability analysis · White-box audits

Blockchain / Web3:

Ethereum · Polygon · Solidity · Smart contracts · Web3.js · Ethers.js · DeFi · ZK-based optimizations

Artificial Intelligence:

Google Vertex, Codex, Ollama, OpenAI, Gemini, LangChain, n8n, CrewAI, Transformers, PyTorch

Domains & Industries:

Fintech · DeFi · Gaming · Cybersecurity · Core banking · Telecom · SaaS · Real-time systems