MILAD TSX

Senior Full Stack Engineer – From Idea to Production

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

PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 15 years of experience taking products from vague ideas to reliable, production-ready web applications. I've delivered multiple MVPs end-to-end — from shaping the concept with non-technical stakeholders, to building the frontend and backend, to deploying and operating the system under real traffic. I care about clean, simple user experiences on top of robust, secure, and cost-efficient backends.

Known for clear, direct communication, low-ego collaboration, and the ability to move across frontend, backend, and infrastructure to unblock progress. I focus on outcomes, explain trade-offs in simple language, and leave behind code and documentation that other engineers can easily build on.

KEY OUTCOMES

- Shipped multiple MVPs from idea → production as founding engineer / technical founder, working directly with non-technical stakeholders to refine scope, UX, and trade-offs.
- Built full stack web applications (frontend + backend + infra) that handled real users in production, not just prototypes.
- Increased reliability in a high-traffic SaaS from ~65% to 92% and scaled throughput ~10× so the product could handle real growth.
- Cut cloud costs by ~60% by simplifying and right-sizing AWS backend architecture, without hurting performance or user experience.
- Helped safeguard ~$4M in client funds on-chain over 3 years with zero security incidents and strong external audit scores.
- Reduced gas fees by ~99% for a critical blockchain action users relied on.

FOCUS AREAS

Full Stack Web Development · Backend & Systems Reliability · MVP Delivery & Product Iteration · Scalability & Performance · End-to-End Ownership

WORK EXPERIENCE

Senior Full Stack Engineer – Financial System & Security

VENT Finance – Web3 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 Full Stack Engineer – Scalability & Reliability

Revision – Trivia Mobile Gaming Studio   Feb 2020 – Jul 2021

- Scaled backend throughput by ~10×, 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.

Full Stack Engineer | Founding Engineer

BugDasht – Crowdsourced Cybersecurity Platform   Feb 2019 – Sep 2019

- Took the platform from idea to live product in 8 months, owning frontend, backend, and integrations end-to-end.
- Built the initial web UI and workflows so security teams could use the platform without training, then refined them based on real user feedback.
- 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 – SecOps / Cybersecurity

MCI – Mobile Communication Company   Nov 2017 – Jul 2019

- Automated repetitive security operations, saving the team ~3 hours per day of manual work and reducing the chance of human error in critical checks.
- Identified and communicated security vulnerabilities earlier in the SDLC, working with development teams to fix issues before they reached production.

- Helped turn complex security requirements into practical guidelines and tools that engineers could follow without needing to be security experts.

SELECTED PROJECTS

Founder – Edge ML for Physical Security

Shahin – Physical Security Monitoring System   Sep 2025

- Enabled fast, accurate custom reporting via on-device ML, so non-technical staff could answer "who entered when?" without digging through raw footage.
- 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.
- 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

- Designed a simple web flow so non-technical donors could send on-chain donations without needing to understand wallets or smart contracts.
- 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.
- Wrote clear documentation so contributors and users can understand how the system works and how to extend it.

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