

Sai Mahesh Sure

Amherst, MA | 413-210-0159 | saimaheshsure29@gmail.com | Portfolio | GitHub | LinkedIn

SUMMARY

Blockchain and software engineer with 3+ years building Polygon/Ethereum applications and XR products in Unity. Currently pursuing an M.S. in Computer Science (Blockchain Security) at UMass Amherst; focused on ZK authentication, smart-contract performance, and secure backends.

EDUCATION

University of Massachusetts Amherst - M.S. Computer Science (Blockchain Security)	Amherst, MA
	Expected Dec 2025
IFET College of Engineering - B.E. Electronics & Communication Engineering	Tamil Nadu, India

EXPERIENCE

Cognizant (India) Senior Blockchain & XR Developer - Retail	Feb 2022 - Jan 2024
• Built and shipped a Polygon-based supply-chain tracker for farm goods; improved traceability and helped reduce spoilage by ~30% (quarterly inventory audits).	
• Developed a Unity3D collaboration platform for 2,000+ monthly users; reduced issue-resolution time by ~25% and cut inbound support tickets by ~45%.	
• Created Mixed Reality dashboards (HoloLens 2 + MRTK) to monitor 150+ assets; improved utilization by ~20% and enabled faster maintenance response (~\$85K annual savings).	
Cognizant (India) Blockchain & AR/VR Developer	Dec 2021 - Feb 2022
• Prototyped an Ethereum/Polygon tracking workflow; reached 99.8% transaction success in pilots and reduced verification time by ~65%.	
• Built an automotive AR experience that increased customer engagement by ~35% and improved showroom conversion by ~28% across 12 vehicle models.	
Cognizant (India) Program Analyst	Dec 2020 - Dec 2021
• Trained in full-stack development (.NET Core, C#, SQL); ranked top 10% in a 120-person cohort and built internal tools used by 75+ colleagues.	
• Built a blockchain verification prototype that reduced document processing time from ~3 days to ~10 minutes.	

PROJECTS

Medi Vault	Mar 2024 - May 2024
• Built a Polygon-based dApp for medical-record workflows with access control and auditability features.	
• Optimized smart-contract execution for higher throughput (reported up to 500K+ daily transactions), reducing gas costs by ~40% and improving confirmation time from ~45s to ~12s.	
Healthcare Security with ZK Proofs	Feb 2025 - May 2025
• Implemented zero-knowledge authentication flows for healthcare records to minimize sensitive-data exposure during login and access checks.	
• Designed a sharded storage prototype evaluated in simulations up to 2TB and ~2K concurrent users; observed ~15% faster peak-time response and stable performance (99.98% simulated uptime).	

TECHNICAL SKILLS

XR & Frontend: Unity3D, MRTK, HoloLens 2, Azure Spatial Anchors, React.js, Node.js

Cloud & DevOps: Azure, Google Cloud, Docker, CI/CD, REST APIs, PostgreSQL

Software Engineering: Full-stack/back-end development, unit & integration testing, Agile/Scrum, cross-functional collaboration

Blockchain & Security: Solidity smart contracts, gas optimization, ERC-20/721, zero-knowledge proofs, Web3.js, Hardhat, Truffle, sharding, consensus algorithms, distributed systems, cryptography

Languages: C#, Python, JavaScript/TypeScript, SQL, Solidity, Rust