# Sai Mahesh Sure

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## SUMMARY

A results-oriented Staff Smart Contract Engineer and XR Solutions Architect specializing in blockchain security and full-stack development. Proven ability to design and deploy innovative decentralized solutions, enhancing traceability, user engagement, and operational efficiency. Expertise in smart contract optimization, secure decentralized applications, and immersive platform development, consistently delivering measurable business value and cost savings through advanced cryptography and problem-solving.

## EDUCATION

**University of Massachusetts Amherst  |  Amherst, MA**                                      **Dec 2025**
M.S.  |  Computer Science — Blockchain Security Specialization

**IFET College of Engineering  |  Tamil Nadu, India**
B.E.  |  Electronics & Communication Engineering

## EXPERIENCE

**Senior Blockchain & XR Developer — Retail India  |  Cognizant  |  India**          **Feb 2022 – Jan 2024**
- Architected and deployed a Polygon-based blockchain supply chain tracking system, achieving a 30% reduction in product expiry through enhanced real-time traceability.
- Constructed a Unity3D collaboration platform utilized by over 2,000 monthly users, decreasing issue resolution time by 25% and eliminating 45% of support tickets.
- Engineered Mixed Reality dashboards to monitor 150+ assets, increasing asset utilization by 20% and enabling 35% faster maintenance response, generating $85K in annual savings.

**Blockchain & AR/VR Developer India  |  Cognizant  |  India**                    **Dec 2021 – Feb 2022**
- Pioneered an Ethereum/Polygon-based tracking system improving transaction reliability to 99.8% and reducing verification time by 65%, mitigating an estimated $500K in annual product losses.
- Developed an automotive AR application that boosted customer engagement by 35% and increased showroom conversion rates by 28% across 12 vehicle models.
- Created a navigation system integrated with Microsoft Dynamics 365, decreasing wayfinding time by 40% and enhancing satisfaction scores by 32%.

**Program Analyst Trainee India  |  Cognizant  |  India**                         **Dec 2020 – Dec 2021**
- Mastered full-stack development (.NET Core, SQL, C#), ranking in the top 10% of 120 trainees and developing internal tools adopted by over 75 colleagues.
- Built a blockchain verification prototype, compressing document processing from 3 days to 10 minutes, demonstrating strong problem-solving capabilities.

## PROJECTS

**Medi Vault — Healthcare Data Exchange Platform**                                **Mar 2024 – May 2024**
- Built a Polygon-based dApp for secure medical record processing, achieving 30% enhanced security and compliance verification from three independent auditors.
- Optimized smart contracts handling over 500K daily transactions, reducing gas costs by 40% and accelerating confirmations from 45 to 12 seconds.

**Healthcare Security with ZKP — Patient Data Protection**                        **Feb 2025 – May 2025**
- Implemented Zero-Knowledge Proof-based authentication for healthcare records, reducing identified breach risks by 40% and passing all independent auditor penetration tests.
- Architected a sharded storage prototype for healthcare data, demonstrating 15% faster response under peak loads and stable performance with 2K+ concurrent users at 99.98% simulated uptime.

**Ethereum Healthcare System**                                                     **Feb 2019 – Jun 2019**
- Developed a blockchain system that shortened record retrieval by 70% and achieved 99.9% data integrity verification.
- Received a university innovation award for a solution that accelerated authentication by 85% and reduced verification costs by $25K annually per provider.

## HONORS & AWARDS
- Best Innovation Project for Healthcare Blockchain Solution
- IFET Accelerated Career Track
- university innovation award for solution that accelerated authentication by 85% and reduced verification costs by $25K annually per provider.

## SKILLS
- Programming Languages: Proficient in Solidity, JavaScript/TypeScript, Python, Rust, C#, and SQL for building robust blockchain applications and backend systems.
- Blockchain Technology & Security: Expertise in smart contract development, gas optimization, ERC-20/721 standards, Zero Knowledge Proofs, Web3.js, Hardhat, Truffle, and sharding techniques to ensure secure and efficient decentralized systems.
- XR & Frontend Development: Skilled in Unity3D, MRTK, HoloLens2, Azure Spatial Anchors, React.js, and Node.js for creating immersive user experiences.
- Cloud/DevOps & Testing: Experienced with Azure, Docker, CI/CD pipelines, REST APIs, unit testing, integration testing, and utilizing

Mocha and Hardhat Test Suites for quality assurance.
- Soft Skills: Possesses strong communication, problem- solving, and analytical abilities crucial for effective collaboration and tackling complex technical challenges.