

Sai Mohith S

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EDUCATION

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| • B.E. - Computer Science and Engineering
<i>BMS Institute of Technology and Management, Bengaluru</i> | CGPA: 9.09
2023 – 2026 |
| • Diploma in Computer Science and Engineering
<i>Acharya Polytechnic, Bengaluru</i> | CGPA: 9.56
2020 – 2023 |

PROJECTS

OARS Platform [\[Link \]](#)

- Built a TypeScript security governance platform for AI and automation workflows with policy enforcement and approval gates.
- Designed signed receipt and immutable audit-trail flows for traceable, replayable security operations.
- Implemented SIEM-ready event delivery and evidence workflows for security and compliance use cases.
- Developed tenant-aware control-plane services with service identity and hardened API boundaries.
- Verified the platform with automated tests across API hardening, SSRF controls, and policy evaluation paths.
- **Stack:** TypeScript, Node.js, Fastify, PostgreSQL, Vitest, Docker.

Zero-Knowledge Auth System | Privacy Preserving Authentication [\[Link \]](#)

- Led development of a privacy-preserving multi-device authentication system using Zero-Knowledge Proofs.
- Added Redis-backed replay protection and PostgreSQL-backed identity and session management.
- Implemented multi-tenant isolation, device trust controls, and behavioral analysis for stronger account security.
- Built core cryptographic flows with Circom, Groth16, Poseidon hashing, and Argon2id-based secret handling.
- **Stack:** React, Node.js, PostgreSQL, Circom, SnarkJS, WASM, Redis, Argon2id.

AURORA [\[Link \]](#)

- Built an AI-native engineering orchestration system for controlled planning, execution, and evaluation of code changes.
- Developed LLM planning and codebase-context pipelines to support structured autonomous engineering workflows.
- Implemented sandboxed execution, CI-aware automation, and secret scanning for safer agent-driven changes.
- Added telemetry, artifact generation, and policy-aware control loops to improve observability and governance.
- Focused the system on safe automation primitives rather than unchecked autonomous code execution.
- **Stack:** Python, Pydantic, SQLAlchemy, pgvector, OpenTelemetry, Docker.

SKILLS

- **Programming Languages:** TypeScript, JavaScript, Java, Python, SQL
- **Technologies & Frameworks:** Node.js, Express.js, React.js, Next.js, PostgreSQL, MongoDB, Redis
- **Security:** Applied Cryptography, Authentication & Authorization, Zero-Knowledge Proofs, System Design, AI Agents
- **Tools & Platforms:** Git, Docker, AWS, Linux OS, CI/CD, Apache Kafka

ACHIEVEMENTS

- National Hackathons: Central India Hackathon, NCET Hackathon, GeeksforGeeks Hackathon (1x Winner), Department Level: 2x Winner
- Capture The Flags: Hack The Box India (Top 3) | IIIT Sri City (8th Place) | IIT Madras (27/367)