# Aryan Sanganti

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## Achievements

**4× Consecutive Hackathon Wins (Feb–Apr 2026)**

- 1st Place Winner, Gen AI Webcraft Challenge
- 2nd Place Winner out of 100 teams, Datathon 2026
- HeyElsaAI Track Winner, ETH Mumbai 2026
- 1st Place Winner out of 30 teams, MLH Gemini HackDays
- 1st Place Winner out of 50 teams, ACM AfterMath

## Experience

**Full Stack Developer (Intern)** Nov 2025 – Feb 2026

*MyEZZ*

- Architected scalable frontend modules using React.js, translating business requirements into component-driven interfaces to maximize user retention.
- Refactored backend logic and API endpoints to improve system reliability and security, facilitating much faster feature deployment.

**Full Stack Developer (Intern)** Jun 2024 – Aug 2024

*Meshcraft*

- Developed full-stack web applications, streamlining database queries and backend logic to minimize API latency and boost overall system performance.
- Collaborated with design teams to implement high-performance Three.js visualizations, accelerating load times through strategic caching and routing optimizations.

## Projects

**NFC-Based Crypto Payment System** | *React Native, JavaScript, NFC* Code

- Developed a mobile cryptocurrency payment MVP using React Native, Near Field Communication (NFC), and blockchain technology to enable contactless, tap-to-pay transactions.
- Engineered event-driven NFC detection and wallet-based transaction initiation, successfully processing **100% of test payloads on-chain** during the demonstration.
- Designed the end-to-end payment workflow covering NFC input handling, transaction initiation, wallet integration, and blockchain settlement, demonstrating a prototype for contactless Web3 payments.

**Swaraj-ID – Voice-First Labour Rights Platform** | *Next.js, Node.js, MongoDB, Python, Ethereum* Live | Code

- Designed a multi-agent AI system comprising **5 specialized agents** for job discovery, wage protection, workplace safety, labour-rights assistance, and skill development using Groq LLM and large language model (LLM) orchestration.
- Integrated Twilio voice and SMS APIs with Node.js and MongoDB to build a conversational communication pipeline supporting worker queries and automated grievance generation.
- Implemented a blockchain-based digital identity and reputation system on Ethereum, incorporating gasless transactions, wage-proof anchoring, and fraud-resistant worker scoring through the Swaraj Score.

**Enterprise Delivery & Workforce Intelligence** | *React.js, Node.js, Python, Neo4j, LangChain* Live | Code

- Built an AI-powered workforce intelligence platform integrating GitHub and Jira through **2 OAuth integrations**, ingesting engineering activity into a Neo4j graph database for centralized workflow analysis.
- Developed recursive task decomposition using Google Gemini API and LangChain, transforming complex assignments into structured subtasks and graph relationships for automated resource-allocation support.
- Applied graph-based dependency analysis and AI-driven task planning to surface engineering bottlenecks, support sprint planning, and improve project delivery risk assessment.

**SentinelAI – AI-Powered Malware Detection Platform** | *Next.js, Flask, Python, TypeScript* Live | Code

- Engineered a full-stack cybersecurity application using Next.js, Flask, Python, and TypeScript to perform static and dynamic malware analysis across supported file formats.
- Integrated machine learning models and Groq LLMs for malware detection, suspicious-behaviour analysis, automated PDF report generation, and conversational threat-analysis assistance.

**CivicAI – AI-Enabled Civic Issue Reporting Platform** | *React Native, TypeScript, Supabase, Node.js* Live | Code

- Developed a full-stack mobile application using React Native, TypeScript, Supabase, and Node.js, implementing real-time civic issue reporting, authentication, database integration, and role-based access control (RBAC).
- Designed RESTful APIs and automated complaint-management workflows

**Smart Eco-Tourism Platform (Jharkhand)** | *React.js, Node.js, Flask, Python, MongoDB, Redis, Solidity* Live | Code

- Architected a full-stack web application using React.js, Node.js, Flask, and MongoDB, delivering RESTful APIs, user authentication, booking management, and tourism service workflows.
- Optimized backend performance through JWT-based authentication and Redis caching.
- Integrated Solidity smart contracts (ERC-721), Ethereum wallet connectivity, MetaMask, Ethers.js, and IPFS for blockchain-based verification and decentralized data storage.
- Developed unit and integration tests using PyTest and Jest, and integrated Mapbox and Google Maps APIs for geospatial visualization, location tracking, and transport coordination.

**Clash of Minds – AI-Powered Gamified Learning Platform** | *React, JavaScript, Node.js, Express.js* Live | Code

- Addressed passive and repetitive study workflows by engineering an AI-powered educational RPG with React 19 and Gemini APIs, converting notes, PDFs, images, and textbook content into context-aware quizzes and interactive boss battles.
- Enabled collaborative learning through a real-time multiplayer raid system built with Node.js, Express.js, and Socket.IO, synchronizing shared boss health and player actions across connected clients.
- Personalized game experiences around user-provided learning materials by integrating Gemini-powered content reasoning and parallel AI asset generation, producing customized game scenarios, characters, backgrounds, and boss encounters.
- Supported long-term knowledge retention by implementing spaced repetition, incorrect-answer tracking, daily quests, progress analytics, XP progression, and persistent player statistics using React Context and LocalStorage.
- Enhanced visual immersion and avatar customization by developing client-side Canvas image compositing, blending AI-generated character assets with game environments for dynamic in-game rendering.

## Education

**KJ Somaiya College Of Engineering** Mumbai
*B.Tech in Computers & Communication Engineering - CGPA-9.0* *Aug. 2023 – May 2027*

## Technical Skills

**Languages**: JavaScript, Python, C/C++, SQL
**Frontend**: React, React Native, Three.js, React Three Fiber, HTML, CSS
**Backend & Frameworks**: Node.js, Express.js, Flask, FastAPI, REST APIs
**AI & LLMs**: LangChain, Generative AI, Large Language Models (LLMs), Prompt Engineering, Retrieval-Augmented Generation (RAG)
**Databases & Storage**: MongoDB, PostgreSQL, MySQL, Supabase, Firebase, Vector Databases