

Saurabh Jayant Joshi

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Full Stack Engineer High-impact engineer with an MSc in Advanced Computer Science and expertise in building high-throughput Web3 ecosystems. Specialized in Node.js/TypeScript and React for decentralized platforms. Proven track record in architecting multi-database synchronization for real-time systems, n8n/Zapier automation, and MCP-integrated AI tools to maximize engineering velocity and platform performance.

PROFESSIONAL EXPERIENCE

Full Stack Junior Engineer

Blockchain-Ads (AdTech Platform) - Jul 2025 - Dec 2025

- **System Orchestration:** Engineered 22+ Node.js Cloud Functions for campaign automation and wallet enrichment pipelines, utilizing scheduled job orchestration to replace manual legacy workflows.
- **Full Stack Delivery:** Developed React 18.2 + MUI dashboards integrated with 135+ REST API endpoints, providing real-time data visualization and campaign management for non-technical users.
- **Database Architecture:** Architected multi-database integrations (Firestore, MySQL, MeiliSearch) with automated consistency validation and cross-platform synchronization to ensure 99.9% data reliability.
- **System Resilience:** Implemented job queue systems with retry logic, failure recovery, and Telegram bot monitoring for critical real-time system alerts.
- **AI Tooling:** Developed MCP-assisted tools (Model Context Protocol) to streamline team workflows, enabling seamless AI interaction with internal databases and local development environments.

Software Developer Intern

EXFO (Telecom Infrastructure) - Dec 2022 - Jul 2023

- **Hardware Interfacing:** Developed C#/.NET data acquisition modules for OTDR/FIP-500 hardware devices, directly controlling hardware-level validation and reducing testing workflow time by 25%.
- **Telemetry & Analytics:** Integrated Microsoft Application Insights for real-time telemetry analytics, enabling data-driven debugging and reducing production bug reports by 15%.
- **Automated Reporting:** Enhanced report generation (PDF/CSV), improving data accuracy by 30% for critical infrastructure testing results.
- **Quality & Standards:** Resolved 50+ critical bugs in legacy embedded-adjacent systems, adhering to strict industry standards for system resilience and uptime.

PROJECTS

Semantic Search Engine | Python, FastAPI, Sentence-Transformers

- **Modern Integration:** Built a high-performance search engine using FastAPI, creating clean API endpoints for document retrieval.
- **Problem Solving:** Debugged complex vector embedding issues to optimize search latency, demonstrating strong troubleshooting skills.

Lyrics-Based Music Analysis (MSc Dissertation)

- **Data Analytics:** Built an analytics pipeline to process massive unstructured datasets. Used Mathematical Algorithms (Vector Embeddings) to analyse high-dimensional data, achieving 82% accuracy.
- Evaluated LLM performance using metrics such as BLEU and ROUGE to ensure high-fidelity conversational outputs.

TECHNICAL SKILLS & CERTIFICATIONS

- **Frontend:** React, TypeScript, Material-UI (MUI), Data Visualization, SCSS.
- **Backend:** Node.js, Python (FastAPI), C#, Java.
- **Data & Infrastructure:** Firebase/Firestore, MySQL, MeiliSearch, AWS, Cloud Functions.
- **DevOps & Tools:** Docker, GitHub Actions (CI/CD), AI-Assisted Dev (Cursor, Claude code), N8N, Jira, Git.
- **Certifications:** Docker Foundations Professional, Confluent Kafka (Data Streaming Engineer).

EDUCATION

MSc Advanced Computer Science – University of Sheffield, UK

Sep 2023 – Nov 2024 | (2:1)

- **Focus:** Machine learning, NLP, Distributed Systems, Cloud Computing, Software Testing & Analysis.