

Sam Oluwadare

Software Engineer | AI & Digital Systems | Technology & Governance

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PROFESSIONAL PROFILE

MSc Information Technology graduate with Distinction and over four years of experience delivering full-stack applications, AI-enabled systems and data-driven digital products across commercial, academic and innovation environments. Experienced in software design, system architecture, API development, database engineering and collaborative delivery. Alongside technical work, I serve as a University Governor and have held elected trustee and education leadership responsibilities, combining engineering capability with strategic oversight, communication and a people-centred approach.

CORE EXPERTISE

Software Engineering: JavaScript, TypeScript, React, Next.js, Node.js, Express, Python, FastAPI, Django, PHP, REST APIs.

AI, Data & Innovation: LLMs, Retrieval-Augmented Generation, Digital Twins, PostgreSQL, MySQL, MongoDB, data modelling and business analytics.

Architecture & Delivery: Systems analysis, requirements engineering, solution design, Docker, Git, Linux, Agile, testing and technical documentation.

Leadership & Governance: Board governance, strategic oversight, stakeholder engagement, policy development, risk awareness and public speaking.

SELECTED ACHIEVEMENTS

- Contributed to an AI-powered Digital Twin prototype under the East Midlands Investment Zone initiative.
- Designed and implemented a secure offline LLM-assisted proposal assessment and improvement platform.
- Serve as a University Governor contributing to oversight of an institution serving 34,000+ students and 2,000+ staff.
- Served as Vice President (Education) and Trustee Member, coordinating engagement across approximately 470 student representatives.

PROFESSIONAL EXPERIENCE

University Governor / Director

University of Derby | Jul 2025 - Present

- Contribute to board-level discussions covering strategy, risk, organisational performance and digital transformation.
- Review complex reports and executive proposals, supporting accountability and evidence-based decision-making.
- Represented the University at a House of Lords policy and industry event for the Institute of Carbonomics.

Vice President (Education) & Trustee Member

University of Derby Students' Union | Jul 2025 - Jul 2026

- Elected to represent the academic interests of more than 34,000 students and lead education strategy.
- Coordinated engagement across approximately 470 student representatives and presented recommendations to senior stakeholders.
- Led initiatives spanning student voice, AI in education, academic representation and service improvement.

Computer Science Teaching Intern

Department for Education / George Spencer Teaching School Hub | Jun 2025

- Delivered Year 8 data science lessons and translated complex technical concepts into accessible learning experiences.
- Marked Year 11 GCSE Computing preparatory scripts and completed training in safeguarding, SEND and adaptive teaching.

Software Developer (Contract)

EMCCA / University of Derby / Bloc Digital | Jan 2025 - Mar 2025

- Developed frontend capabilities for an AI-powered Digital Twin prototype supporting operational decision-making.
- Integrated with a graph-based, edge-enabled RAG-LLM architecture supporting causal analysis and domain-specific learning.
- Collaborated with developers, researchers and industry specialists to align delivery with real-world operational needs.

PROFESSIONAL EXPERIENCE CONTINUED

Full-Stack Software Developer

[Sunej Global Ventures | Oct 2022 - Sep 2024](#)

- Designed and delivered user-centred web applications, APIs and database-backed business systems.
- Developed an enterprise sales analytics platform supporting operations generating more than \$10 million annually.
- Led development of Blue Kollars, a marketplace connecting users with verified service providers.
- Implemented REST APIs, authentication, database solutions and third-party integrations using React, Node.js, Python, PHP, MySQL and MongoDB.

Web Developer Intern

[Tech Studio Academy | Feb 2022 - Jun 2022](#)

- Recognised as a top 2% performer for high-quality technical delivery.
- Built responsive full-stack applications using JavaScript, Node.js, Express, MongoDB and WordPress.

EDUCATION & RESEARCH

MSc Information Technology - Distinction

[University of Derby | Sep 2024 - Aug 2025](#)

- Dissertation: LLM-Assisted Project Proposal Assessment and Improvement Platform.
- Designed a secure multi-container architecture using React, FastAPI, PostgreSQL, Docker and locally hosted LLMs.
- Applied Design Science Research and evaluated privacy, governance, infrastructure limitations and operational reliability.

MA English Literature - Distinction (4.76/5.00), Best Graduating Student

[University of Lagos | Sep 2019 - Aug 2021](#)

- Dissertation: Patterns of Female Representation in Nollywood.
- Served as Class Governor and developed advanced research, critical analysis and communication capabilities.

BA English & International Studies - Second Class Upper Honours

[Osun State University | Sep 2013 - Aug 2017](#)

- Served as Departmental Financial Secretary and represented the university in a regional oratory competition.

PROFESSIONAL DEVELOPMENT

Governor Development Programme

[Advance HE | Jan 2026](#)

Governance, strategic oversight, risk management and regulation.

Back-End Web Development

[ALX Africa / Mastercard Foundation | 2024](#)

Python, Django, APIs, data structures, Git and secure backend development.

Node.js, Express, MongoDB & More

[Udemy | 2023-2024](#)

REST APIs, authentication, MongoDB and scalable backend systems.

Future Proof with Python

[Kibo School of Technology | 2022](#)

Python, OOP, data structures and problem-solving.

JavaScript Full-Stack Web Development

[Tech Studio Academy | 2022](#)

JavaScript, Node.js, Express, MongoDB and full-stack application development.

SELECTED PROJECTS

- Powered2Grow - AI transformation platform for small businesses.
- LLM-Assisted Proposal Assessment Platform - secure offline research and decision-support system.
- AI-Powered Digital Twin Platform - regional innovation prototype integrating real-time data, RAG and causal analysis.
- Blue Kollars - full-stack service marketplace with discovery, scheduling, authentication and notifications.
- Enterprise Sales Analytics Platform - dashboards and reporting supporting operations generating \$10M+ annually.