

# Daniel Simms

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## EDUCATION

University of Nottingham

September 2022 - May 2026

**BSc. in Computer Science with a Year in Industry: Predicted Grade: 2:1 (Upper Second Class Honours)**

**Top Modules:** Developing Maintainable Software 82%, Databases & Interfaces 84%, C++ Programming 78%, Intro to Software Engineering – 79%, Software Specification – 73%, Computer Fundamentals – 95%

## TECHNICAL SKILLS

**Languages:** Python, JavaScript (ES6+), TypeScript, Java, SQL, C++, C, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Tailwind CSS

**Databases:** MongoDB, PostgreSQL

**DevOps & Tools:** Git, Docker, GitHub Actions, Postman, Jira, Confluence, Jenkins

**Cloud & Infrastructure:** IBM Cloud, Serverless Functions (IBM Cloud Functions), AWS Cloud Practitioner Certification, Hybrid Cloud, Cloud Computing

## WORK EXPERIENCE

IBM Consultant Intern (Year in Industry)

August 2024 - August 2025

*Consultant*

*London*

- **Q3 Growth Minded Behaviour Intern Award:** Recognised for outstanding performance, earning the highest rating ("Exceptional") for both Skills and Business Outcomes in 3-month, 6-month and 12-month performance reviews
- **Onboarding & Offboarding Management:** Directed the onboarding and offboarding process for a 25-member account, ensuring 100% compliance with Data Security & Privacy (DS&P) compliance and precise access control across all systems
- **Client Deliverable Preparation:** Managed monthly client reports, analysing 14 KPIs (technical), collaborating with cross-functional teams to gather data and produce actionable insights for senior stakeholders
- **Generative AI POC Development:** Built a Retrieval-Augmented Generation (RAG) model integrating a knowledge base of learning materials, allowing new joiners to resolve 85% of queries through natural language queries

*Software Developer*

- **Chain of Thought Prompt Engineering:** Engineered advanced LLM prompts to interpret and flag contract targets, enhancing clarity through chain-of-thought prompting and achieving an 88% precision rate
- **Enhanced AI model performance:** Fine-tuned IBM Watson Discovery models, resulting in a 20% improvement in accuracy through confusion matrix evaluations and critical issue resolution, supporting data-driven decisions
- **Scalable Data Pipeline Implementation:** Built a Python-based automation pipeline with IBM Cloud Functions and Object Storage, cutting processing time by 40% and scaling to all contracts through API integration and real-time event-based processing
- **LLM parameter optimisation:** Calibrated Mixtral-8x7B-Instruct-v0.1 model parameters, achieving a 90% success rate in generating contextually relevant and concise responses, and becoming the team subject matter expert on this model

GLL

March 2021 – August 2024

*Recreational Assistant*

- Undertook the responsibility of coordinating pre-scheduled recreational pool sessions, managing a daily timetable accommodating up to 1750 swimmers

- Demonstrated leadership by overseeing poolside operations, ensuring 100% adherence to safety standards and fostering a positive environment for over 1,700 swimmers

## PROJECTS

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### Edvia - AI-powered Learning Platform | *Personal Project*

[Next.js](#) | [TypeScript](#) | [PostgreSQL](#)

- Engineered a full-stack educational platform with customizable AI tutoring companions, enabling real-time voice learning and AI-generated recaps, improving user engagement by 60% and reducing query resolution time by 45%
- Architected a robust relational database schema with Supabase PostgreSQL to manage user data, AI agent configurations, and session history, preserving data integrity with foreign key constraints and cascading deletes
- Integrated cloud APIs (Vapi for real-time audio, Gemini AI for reasoning) to create a complex, AI-enabled workflow, asynchronously processing conversations to generate structured summaries and key takeaways
- Constructed a responsive and accessible UI with modern React patterns, state management, and TypeScript, enhancing code reliability and providing a seamless user experience across all devices

### Website Portfolio | *Personal Project*

[React](#) | [TypeScript](#)

- Designed a responsive personal portfolio website with React functional components and Tailwind CSS, optimising page load speed by 30% and providing a showcase of projects and skills
- Created advanced component abstraction, increasing code maintainability and reducing runtime errors by improving type safety across the project
- Enhanced UI/UX by applying mobile-first design and accessibility best practices, resulting in a seamless user experience across devices and improved usability for all users

### E-Commerce Website | *Personal Project*

[Next.js](#) | [JavaScript](#) | [JSON](#)

- Created a fully responsive e-commerce website focused on eco-friendly products, implementing product displays with JSON data handling to increase user engagement and streamline content management
- Implemented shopping cart functionality and intuitive navigation, elevating customer experience and increasing user retention
- Owned the full project lifecycle from UI design to deployment, delivering a high-performance, responsive website that met user needs

## LEADERSHIP EXPERIENCE

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### Software Engineering Course Project | University Project

**September 2023 - May 2024**

#### *Team Project Lead*

- Supervised an 8-member full-stack software engineering team to deliver a year-long web application project, upholding alignment with stakeholder requirements and on-time delivery
- Delegated and coordinated front-end and back-end tasks across React, Node.js, and database components, boosting development efficiency by 25% and driving timely feature delivery

### Ada Lovelace School | IBM Mentoring

**February 2025 - March 2025**

#### *Volunteering*

- Volunteered for 6 weeks at Ada Lovelace School, delivering interactive sessions on AI and tech careers to inspire and engage secondary school students
- Shared personal software engineering journey as a panellist, helping demystify STEM pathways for over 100 young attendees and encouraging greater diversity in tech