

Nanda Kumudhan

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EDUCATION

Loughborough University <i>BSc Computer Science and Artificial Intelligence</i>	Loughborough, UK Sept 2024 – June 2028
West Bridgford School <i>A Levels (120 UCAS Points)</i>	Nottingham, UK 2022 – 2024

• Year 1: 2:1 (Top 20% of cohort)

• Key modules: Data Structures & Algorithms, Embedded Systems Programming, Software Engineering, Operating Systems, Networks

• Full-stack PHP/JS Healthcare Portal — 89%

• Subjects: Mathematics (B), Physics (B), Computer Science (B) — overall grades: BBB

• Flask E-commerce Bike Sales Web App — 100%

EXPERIENCE

Software Developer (Freelance) <i>Dental Parts Sales Business</i>	Remote July 2025 – August 2025
• Designed and implemented a full-stack inventory and sales dashboard using Python, JavaScript, TypeScript, Flask, Chart.js , enabling real-time reporting and increasing decision-making speed by 60% . • Automated invoice generation, stock alerts, and sales summaries, saving 30+ hours/month of manual work. • Integrated a PostgreSQL database with optimized queries, reducing data retrieval time by 50% . • Developed interactive charts and visualizations to track sales trends, inventory levels, and customer orders, improving accuracy by 25% . • Managed deployment, version control (Git), and incremental updates, achieving downtime of <1% .	

• Managed bookings, reservations, and customer interactions efficiently, improving customer satisfaction by **20%**.
• Assisted in POS operations and reporting tasks, reducing errors by **15%**.

PROJECTS

Smart Study Assistant <i>JavaScript, TypeScript, React, Node.js, Panopto</i>	Nov 2025 – Present
• Founded an AI-powered study platform delivering notes and quizzes via OpenAI API , increasing user engagement by 50% . • Automated lecture content retrieval, transcription, and summarization using Panopto , reducing manual effort by 80% . • Built a scalable, responsive React/TypeScript frontend, improving platform speed and user experience by 35% .	
JP Morgan Software Engineering Simulation <i>Java, Spring Boot</i>	June 2025

• Developed a backend transaction system simulating real-world banking operations including fraud detection.
• Implemented unit/integration tests and logging to improve system reliability.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, PHP, SQL (Postgres/MySQL), HTML/CSS
Frameworks & Libraries: React, Node.js, Flask, FastAPI, Bootstrap, Tailwind, Spring Boot, Panopto, pandas, NumPy, Matplotlib
Tools & Platforms: Git, Google Cloud Platform, Firebase, Supabase