

# Nanda Kumudhan

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## EDUCATION

### Loughborough University

BSc Computer Science and Artificial Intelligence

Loughborough, UK

Sept 2024 – June 2028

- 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%

### West Bridgford School

A Levels (120 UCAS Points)

Nottingham, UK

2022 – 2024

- Subjects: Mathematics (B), Physics (B), Computer Science (B) — overall grades: BBB
- Flask E-commerce Bike Sales Web App — 100%

## EXPERIENCE

### Software Developer (Freelance)

Dental Parts Sales Business

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%**.

### Front-of-House Receptionist

Customer Service & Operations

Indian Restaurant, Nottingham, UK

Jun 2022 – Sep 2024

- 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 | JavaScript, TypeScript, React, Node.js, Panopto

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 | Java, Spring Boot

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