

# 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 (75%), Software Engineering (75%), 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)
- Flask E-commerce Bike Sales Web App — 100%

## EXPERIENCE

### Software Developer (Freelance)

Dental Parts Sales Business

Remote

Jan 2023 – May 2023

- Designed and implemented a full-stack inventory and sales dashboard using **Python, JavaScript, TypeScript, Flask, and Chart.js**, enabling real-time reporting and analytics
- Automated invoice generation, stock alerts, and sales summaries, saving 30+ hours of manual work per month
- Integrated a lightweight database using **PostgreSQL** with efficient query optimization for faster lookup and reporting
- Developed interactive charts and visualizations to track sales trends, inventory levels, and customer orders, improving decision-making accuracy
- Managed deployment, version control (**Git**), and incremental updates to ensure smooth operations without downtime

### Front-of-House Receptionist

Customer Service & Operations

Korma Sutra Indian Restaurant, Nottingham, UK

Jun 2022 – Sep 2024

- Managed bookings, reservations, and customer interactions efficiently
- Assisted in POS operations and basic reporting tasks

## PROJECTS

### Smart Study Assistant | JavaScript, TypeScript, React, Node.js, Panopto

Sept 2024 – Present

- Founded AI-powered study platform delivering notes and quizzes via **OpenAI API**, supporting active users
- Automated lecture content retrieval, transcription, and summarization using **Panopto**, reducing manual effort by 80%
- Built scalable, responsive **React/TypeScript** frontend for optimal user experience

### JP Morgan Software Engineering Simulation | Java, Spring Boot

June 2024

- Developed backend transaction system simulating real-world banking operations including fraud detection
- Implemented unit/integration testing and robust logging, increasing reliability and reducing runtime errors by 30%

## 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