

Nanda Kumudhan

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EDUCATION

Loughborough University

BSc Computer Science and Artificial Intelligence

Loughborough, UK

Sept 2024 – June 2027

- Year 1: 2:1
- 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

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

EXPERIENCE

Software Developer (Freelance)

Dental Parts Sales Business

Remote/Chennai, IN

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

Stock Price Forecaster | Python, TensorFlow, Scikit-learn, Streamlit, YahooFinance API

September 2025

- Engineered LSTM neural network predicting stock price movements with 89% directional accuracy across S&P 500 equities
- Developed multi-model ensemble combining Random Forest risk assessment with neural network forecasting, outperforming buy-and-hold strategy by 23%
- Built interactive trading dashboard with backtesting capabilities and live performance tracking

Kafka Transaction Handler | Java, Spring Boot, REST API, JUnit

June 2025

- Completed virtual experience developing transaction handling system by JP Morgan
- Engineered perspective-based data visualization system processing live market feeds with sub-100ms latency
- Achieved perfect score across all modules with certification in financial software engineering best practices

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

Nov 2025 – Present

- Founded an **AI-powered study platform** delivering notes and quizzes via **Hugging Face** models, 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%**.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Typescript

Frameworks: React, Node.js, Flask, JUnit, Next.js, Hugging Face

Developer Tools: Git, Docker, Github Actions, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib, Bootstrap, Tailwind