

# Emmanuel Echefu

**Portfolio:** [emmanuelechefu.com](http://emmanuelechefu.com)

**Mobile:** 07927051065 **Email:** [eman.echefu@gmail.com](mailto:eman.echefu@gmail.com)

## EDUCATION

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### University of Nottingham (current)

**Qualifications:** BSc Computer Science With A Semester Abroad

### University of East Anglia

**Qualifications:** BSc Computer Science With A Foundation Year

### The Sixth Form College, Colchester

**A-levels:** Mathematics, Economics, Computer Science and AS Computer Modelling.

### St John Payne Catholic School, Chelmsford

**GCSEs:** Three 7s (Equivalent to A) including Maths and business studies. Seven 6s (Equivalent to low A) including English Language and English Literature.

## EXPERIENCE

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### Work experience with housing company A2Dominion (Databasing)

- Worked in databasing covering database design and management  
Developed skills in SQL and gained experience in optimizing queries, ensuring data integrity, and performing regular maintenance and backups  
Covered team management and general project management in the tech department

### Work experience with VFX company Escape Studios

- Gained proficiency in Adobe After Effects, Autodesk Maya, and Nuke, and learned to create high-quality visual effects.  
Developed skills in colour grading, detail-oriented VFX integration, and effective project management while collaborating with teams

### Tech team stream producer for Life Church Chelmsford

- Developed proficiency in video production and live streaming technologies.  
Involved operating cameras, managing audio equipment, and using software for live broadcasting and coordinating with a team of experienced individuals.  
Gained experience in troubleshooting technical issues.

## PROJECTS

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### AI Stock Price Predictor Using LSTM/GRU

- Built an interactive web app that predicts stock prices using deep learning (LSTM & GRU networks). The app pulls real time financial data from Yahoo Finance, preprocesses it into time series sequences, trains neural networks, then forecasts future prices. Deployed with Streamlit Cloud for easy user access.

### (CLI) Python based Repository Manager/Navigator

- Built an a Python-based command-line tool that generates a hierarchical tree of a repository and integrates with VS Code for file access. It uses recursive directory traversal with depth control to create the tree and system-level process management to open files externally. Employs cross-platform abstractions to handle file I/O, process execution, and error handling consistently across Windows, macOS, and Linux.

### AI Study Assistant Using LLMs (Large Language Models) with RAG (Retrieval-Augmented Generation)

- Designing an AI-powered chatbot that indexes personal documents (e.g., PowerPoints, lectures) and answers queries with source references. Currently developing features for document-based quizzing.

## SKILLS

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- Programming  
Languages: Python, Javascript, HTML, CSS, Java, C++, C, Lua, Git
- Software Designing  
Creating professional software prototypes based on client requests
- Amateur Graphic Design
- Amateur Databasing