



Curriculum Vitae: Elmi Njoh Mtanase

Aspiring Graduate Software Developer

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 Nottingham

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Professional Overview: Final-year Computer Science undergraduate with strong hands-on experience in software development, cloud-based systems, and full-stack application design gained through academic projects, hackathons, and real client work. Demonstrated ability to design, build, and deploy scalable applications using modern programming languages, frameworks, and development tools. Particularly strong in translating technical requirements into practical solutions, collaborating within development teams, and applying structured problem-solving approaches. Actively seeking graduate or junior software development roles where technical foundations, continuous learning, and commercial awareness can be further developed. **GitHub:** github.com/Elminjoh

Core Skills: Software Development | Full-Stack Engineering | Cloud-Based Systems | Object-Oriented Programming | System Architecture | Application Design | Problem Solving | Technical Documentation | Collaborative Development | Version Control

Education:

Bachelor of Science in Computer Science | Nottingham Trent University | Nottingham, United Kingdom

August 2022 – July 2026

Relevant Modules: Advanced Analysis and Design | Artificial Intelligence | Service-Centric and Cloud Computing | Information Systems Management

Professional History:

Web Developer | Awsworth Villa Football Club | Nottingham, United Kingdom

- Led the end-to-end design and development of the club's official website, translating stakeholder requirements into a fully functional public-facing platform.
- Designed a structured front-end architecture to ensure clear navigation, accessibility, and consistent user experience across devices.
- Built secure authentication functionality, including user login and password reset features, to protect administrative access.
- Developed a custom administrative control panel enabling non-technical users to manage website content independently.
- Implemented dynamic data handling to publish fixtures, results, league standings, and announcements in real time.
- Designed and integrated a calendar-based scheduling system to manage and display upcoming matches and events.
- Applied modular JavaScript logic to improve maintainability and support future feature expansion.
- Ensured clean separation of front-end presentation and backend data handling to improve scalability.
- Worked directly with club representatives to gather feedback, iterate on features, and refine usability.
- Took ownership of testing, debugging, and deployment to ensure the site functioned reliably in a live environment.
- **Technologies:** HTML5, CSS3, JavaScript, Firebase

Software Development Contributor | Taaskify |

October 2024

- Contributed to the development of a Kanban-based task management web application within a collaborative development environment.
- Designed and implemented front-end components to support task visibility, workflow clarity, and user interaction.
- Enhanced landing page structure to improve user onboarding and first-time experience.
- Collaborated with other developers to align interface elements with application logic and planned features.
- Applied UI and UX best practices to refine layout, spacing, and interaction flow.
- Participated in iterative development cycles, incorporating feedback to improve usability and consistency.
- Gained practical exposure to teamwork, version control, and feature-based development workflows.

AI and Machine Learning Developer | Fit Match Hackathon Project |

November 2024

- Designed and developed an AI-powered fashion recommendation application within a time-limited hackathon setting.
- Integrated computer vision capabilities using the OpenAI API to analyse images and extract style attributes.
- Implemented a vector-based similarity search using Pinecone to match user images with relevant fashion items.
- Developed a responsive front-end using React and TypeScript to deliver an intuitive user interface.
- Connected front-end components with backend AI services to enable real-time recommendations.
- Balanced speed of delivery with functional accuracy to produce a complete, demonstrable solution.
- Worked under pressure to prioritise features, resolve technical issues, and meet submission deadlines.
- Demonstrated the ability to quickly learn and apply unfamiliar technologies in a practical context.
- **Technologies:** React, TypeScript, OpenAI API, Pinecone Vector Database

- Supported high-volume warehouse operations within a fast-paced logistics environment.
- Carried out order processing activities, ensuring accuracy and adherence to operational procedures.
- Conducted routine data entry tasks to support inventory tracking and reporting.
- Worked collaboratively within team-based workflows to meet daily operational targets.
- Developed strong attention to detail, time management, and reliability under pressure.
- Followed health, safety, and compliance procedures consistently.

Technical Projects:**Distributed Cloud Infrastructure with Load Balancer | Project Creator | GitHub Repository**

- Designed and implemented a distributed cloud-based file storage system to explore scalability, fault tolerance, and system resilience.
- Architected a containerised environment using Docker to simulate real-world distributed infrastructure scenarios.
- Developed an intelligent load balancer capable of routing requests using multiple scheduling algorithms, including Round Robin, First Come First Served, and Shortest Job Next.
- Built backend services using Python and Flask to coordinate request handling, service communication, and system orchestration.
- Integrated relational databases to manage file metadata, access permissions, and persistence across distributed containers.
- Designed and applied role-based access control to separate administrative functionality from standard user access.
- Developed a Java and JavaFX-based user interface to allow interaction with backend services and system monitoring.
- Tested system behaviour under simulated latency conditions to assess performance and stability.
- Applied structured debugging and iterative refinement to improve reliability and maintainability of the system.
- **Technologies:** Docker, Python, Flask, MySQL, SQLite, Java, JavaFX, REST APIs

Swift Cash Microfinance Website | Project Creator | GitHub Repository | Live Demo

- Designed and delivered a professional, responsive website for a microfinance organisation to support customer engagement and brand credibility.
- Translated client requirements into a structured front-end solution aligned with usability and accessibility principles.
- Built responsive layouts to ensure consistent functionality across desktop and mobile platforms.
- Developed interactive contact forms to support customer enquiries and communication workflows.
- Structured content to clearly present financial services, including microloans and savings products.
- Applied consistent visual styling and branding to create a cohesive user experience.
- Took responsibility for testing, refinement, and deployment readiness of the website.
- **Technologies:** HTML5, CSS3, JavaScript

Academic Timetabling System | Project Creator | GitHub Repository

- Designed and developed a C++ console-based application to manage academic timetabling data efficiently.
- Built administrative functionality to create, update, and manage long-term academic schedules.
- Implemented structured search capabilities allowing users to query schedules by week, module, room, or lecturer.
- Developed automated conflict detection logic to identify and flag scheduling clashes.
- Implemented data export functionality to allow schedules to be accessed via CSV and Excel formats.
- Applied core data structures and algorithmic principles to support performance and reliability.
- Conducted systematic testing to validate logic accuracy and handle edge cases.
- **Technologies:** C++, Data Structures, File Input and Output

AI-Powered Fashion Recommendation Application | Fit Match Hackathon Project |**November 2024**

- Designed and developed an AI-driven fashion recommendation application within a hackathon environment.
- Integrated computer vision capabilities using the OpenAI API to analyse user-uploaded images and extract style attributes.
- Implemented a vector-based similarity search using Pinecone to enable efficient matching of fashion styles.
- Built a scalable front-end application using React and TypeScript to deliver a responsive and intuitive user interface.
- Connected front-end components with AI services to deliver real-time recommendations.
- Delivered a fully functional proof-of-concept application within the allocated hackathon timeframe.
- **Technologies:** React, TypeScript, OpenAI API, Pinecone Vector Database

Key Skills: Python | Java | C++ | JavaScript | TypeScript | React | Flask | JavaFX | Docker | Git | GitHub | MySQL | SQLite | Firebase | RESTful Services | Front-End Development | Back-End Development | Cloud Computing | Database Design | User Interface Design | API Integration | Version Control Workflows | Debugging | Code Optimisation | Software Testing | Agile Collaboration | Technical Problem Solving | Application Deployment |

References: Excellent references are available upon request
