

Timothy-Joseph Godwin

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Education

University of Birmingham

M.Eng Computer Science with Software Engineering | GPA: 3.9/4.25

Sept 2023 – 2027 (Expected)

Birmingham, UK

- **Relevant Coursework:** Full Stack App Development, Object Oriented Programming, Data Structures & Algorithms, Software Engineering and Professional Practices, Functional Programming, Artificial Intelligence

Kaplan International College, London

Foundation Certificate in Science and Engineering | Average: 85%

Jan – June 2023

London, UK

- **Relevant Coursework:** Mathematics: 90%, Information Technology: 88%, Extended Project: 72%

Experience

Uptrail

Data Analysis Intern

July 2025 – Aug 2025

London, UK

- Cleaned and analysed 300+ customer sign-ups and 120+ support tickets using Pandas, uncovering acquisition trends, regional gaps, and plan preferences to inform targeted marketing strategies for SaaS and e-commerce clients
- Built Scikit-learn logistic regression model on 1,494 streaming customers achieving 76.6% accuracy, identifying mobile usage and geographic patterns as key churn drivers for targeted retention strategies
- Designed interactive Tableau dashboard integrating 3 datasets (15,822 records) with 6 calculated KPIs, enabling executive strategic planning through geographic mapping and customer segmentation analysis
- Analysed 2,992 sales records across 499 customers to identify top loyalty tiers and delivery optimisation opportunities (41% delay reduction potential) through 6 data visualisations and strategic analysis

Obioma Specialist Hospital

Medical File Clerk

Sept 2022 – Nov 2022

Awka, Nigeria

- Managed efficient retrieval and organisation of patient medical records in high-volume healthcare environment
- Digitised over 100 paper medical records using Microsoft Excel, improving data accessibility and storage
- Maintained accurate patient file indexes and resolved filing issues, communicating with medical staff where necessary

Projects

Campus Events Web Application

JHipster, Angular, PostgreSQL

- Developed a full-stack web application for university students to discover and review campus events and societies as part of a 7-member team using Agile methodologies
- Led CI/CD pipeline implementation using Azure for deployment, Docker containerisation, and GitHub Actions runners
- Enhanced user experience by developing responsive design for mobile screen sizes and other accessibility features
- Architected RESTful APIs with Spring Boot and resolved database migration issues using Liquibase

Network Firewall Program

C, Networking, Threading

- Designed multithreaded firewall server using pthreads with mutex synchronisation, supporting concurrent client connections and dual-mode operation (interactive CLI and IPv6 network server)
- Implemented rule management system with linked-list data structures for Add/Delete/List/Check operations on IP range and port range filtering rules
- Engineered advanced IP validation using inet_pton() and network byte order conversions, enabling precise IP range matching and connection acceptance/rejection decisions

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, C, Haskell, PowerShell

Data Analysis & ML: Pandas, Scikit-learn, PyTorch, Tableau, Data Visualisation, Predictive Modeling

Web Technologies: React, Angular, Spring Boot, HTML/CSS, Bootstrap, Express.js

Databases & Tools: PostgreSQL, GitHub, AWS, Docker, Azure, VS Code, WSL, JHipster, Vercel

Additional Information

Languages: English (Fluent), Igbo (Basic), Spanish (Learning)

Achievements: 2023/24 UG Outstanding Achievement Award (SRM Funded); Silver medallist in state-level Physics and Mathematics Olympiads; Top 3 graduating student & Best Student in Further Mathematics (British Spring College)