

# Timothy-Joseph Godwin

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## Education

**University of Birmingham** Sept 2023 – present  
M.Eng Computer Science with Software Engineering | **GPA: 3.9/4.25** *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** Jan – June 2023  
Foundation Certificate in Science and Engineering | **Average: 85%** *London, UK*

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

## Experience

**London Success Academy** Sept 2023 – present  
Data Engineering Intern *London, UK*

- Developed scalable ETL pipeline processing 300K+ records using Python, pandas, and chunked processing, with real-time currency conversion via ExchangeRate API and automated USD enrichment
- Built production-ready data infrastructure on Google Cloud Platform with Parquet columnar storage (80% size reduction), date-based partitioning, and comprehensive logging with retry logic
- Implemented robust data transformation workflows including timezone standardization to UTC, duplicate removal, schema validation, and memory-efficient processing for large datasets (200K+ rows)
- Deployed cloud-native data pipeline with automated GCS authentication, error handling, audit trails, and analytics-optimized storage structure ready for BigQuery integration

**Uptrail** July 2025 – Aug 2025  
Data Analysis Intern *London, UK*

- Cleaned and 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
- 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

## 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
- 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, Node.js

**Databases & Tools:** SQL, PostgreSQL, AWS, Docker, Azure, WSL, JHipster, Vercel, GitHub

Additional Information

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**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)