Timothy-Joseph Godwin

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Education

University of Birmingham — Sept 2023 – 2027 (Expected)
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%

Technical Skills

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

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

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

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

Experience

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

- Cleaned and analyzed over 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
- Analyzed 2,992 sales records across 499 customers to identify top loyalty tiers and delivery optimization opportunities (41% delay reduction potential) through 6 data visualizations and strategic analysis.

Projects

Campus Events Web Application — *JHipster, Angular, PostgreSQL*

- Developed full-stack web application enabling university students to discover campus events and societies as part of a 7-member team
- Led CI/CD pipeline implementation using Azure deployment, Docker containerization, and GitHub Actions runners in VM environment
- Enhanced user experience by developing responsive design for mobile screens with floating action button navigation and implementing dark theme toggle functionality
- Architected RESTful APIs and resolved database migration issues using Liquibase, ensuring seamless event discovery platform for university students

Network Firewall Program — *C, Networking, Threading*

- Architected multithreaded firewall server using pthreads with mutex synchronization, supporting concurrent client connections and dual-mode operation (interactive CLI and IPv6 network server)
- Implemented dynamic 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

Additional Information

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

Professional Development: Preparing for AWS Cloud Practitioner certification; self-directed learning on deep neural networks through Udemy; Learning web development through the Odin Project curriculum

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)