

Timothy-Joseph Godwin

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Education

University of Birmingham M.Eng Computer Science with Software Engineering	Sept 2023 – present <i>Birmingham, UK</i>
<ul style="list-style-type: none">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	Jan – June 2023 <i>London, UK</i>
<ul style="list-style-type: none">Relevant Coursework: Mathematics, Information Technology, Extended Project	

Experience

London Success Academy Data Engineering Intern	Sept 2025 – present <i>London, UK</i>
<ul style="list-style-type: none">Built enterprise-scale ETL pipeline processing 300,000+ records using Python, Apache Spark, and GCP, achieving 80% storage optimization through Parquet format with real-time API integrationOrchestrated production data workflows using Apache Airflow on Google Cloud Composer with automated scheduling, BigQuery metadata tracking, and data validation ensuring 99%+ pipeline reliabilityDesigned BigQuery data warehouse with partitioned/clustered tables processing \$15.3M transaction volume across 5 currencies, implementing query optimization reducing costs by 80% through partition pruningDeployed distributed Apache Spark processing on GCP Dataproc cluster, scaling from single-machine to 3-node architecture, processing 95,000+ clickstream events and 50,000+ financial transactions with zero data loss	
Uptrail Data Analysis Intern	July 2025 – Aug 2025 <i>London, UK</i>
<ul style="list-style-type: none">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 analysisBuilt 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 strategiesDesigned 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	<i>JHipster, Angular, PostgreSQL</i>
<ul style="list-style-type: none">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 methodologiesLed CI/CD pipeline implementation using Azure for deployment, Docker containerisation, and GitHub Actions runnersArchitected RESTful APIs with Spring Boot and resolved database migration issues using Liquibase	
Network Firewall Program	<i>C, Networking, Threading</i>
<ul style="list-style-type: none">Designed multithreaded firewall server using pthreads with mutex synchronisation, supporting concurrent client connections and dual-mode operation (interactive CLI and IPv6 network server)Built linked-list rule management system supporting Add/Delete/List/Check operations for IP and port filteringDeveloped IP validation using inet_pton() and byte conversions for precise range matching and connection control	

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, GCP, AWS, Docker, Azure, WSL, JHipster, Vercel, GitHub, BigQuery

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)