Tyler Goyea

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EDUCATION

University of Manchester — **Manchester, UK**
BSc Computer Science — *Sept. 2023 - June 2027*

- Year 1: First Class (1:1), Year 2: First Class (1:1)
- **Modules**: Algorithms & Data Structures, AI/ML, Programming Languages, Computer Graphics, Logic & Modeling, Databases, Computer Architecture, Operating Systems, C/C++
- **Projects**: FPGA buzzer jukebox (Verilog) | Complex Board game, Magic Bakery, with hundreds of JUnit tests (Java) | Email spam filter (Python, classification) | Events management site (Java, Spring Boot, JUnit, JS, HTML) | Python 2D runner game | Employee management demo (SQL, PHP, JS)
- Software Developer at Computer Science Society with (team of 6)

British School of Al Khubairat — **Abu Dhabi, UAE**
A-Level — *Sept. 2021 – July 2023*

- (A*A*A*A*A*) Further Math, Physics, Math, EPQ, Computer Science | GCSE: 9s (x8) and 8s (x2) Arabic (pass)
- Awarded Golden Visa for high academic performance, Academic Scholar, Sports Scholar, Gold UKMT x2

EXPERIENCE

Software Development Industrial Placement — **Hursley, UK**
IBM — *July 2025 - Jan 2026*

- Hybrid cloud flash storage infrastructure development using mainly Java and Python (+ some C)
- Engineered enterprise storage systems with automated disaster recovery and multi-server data synchronization
- Implemented automated task scheduling and backup systems across distributed IBM storage infrastructure
- JUnit and PyTest tests for product-wide features and mock Storage Area Networks
- Sole development of issue diagnosis triage Slack-bot (Python) for internal use by the IBM Storage Department

Electric Vehicle Software Team — **Manchester, UK**
University of Manchester Formula Student — *Oct. 2024 - Feb. 2025*

- Developing formula-style race car with 80 other students to compete against other universities in engineering competition
- Collaborating with hardware teams to integrate software solutions for telemetry and data visualization (Jupyter)
- C programming for microcontrollers to develop battery inverter command mappings

Software Engineer Intern — **Abu Dhabi, UAE**
Al Jaber Group — *Aug. 2024 - Sept. 2024*

- Enhanced legacy codebase at a $9 billion Construction & Energy Group and developed a feature for an existing web app used by 300 employees, primarily using C#, .NET, and SQL Server
- Built prototype leave request generation site with (MongoDB, Node.js, Express.js, React.js)
- Developed Account Reconciliation Program for 20 Finance Department staff that auto-generated summaries in Excel

Operational Finance Intern — **Abu Dhabi, UAE**
Al Jaber Group — *June 2024 - July 2024*

- Processed invoices and LPOs to generate payment vouchers using Oracle JD Edwards EnterpriseOne
- Reconciled A/P and A/R accounts in company database (supported by Excel)

PROJECTS

Networking projects | *Python, Golang*
Multi-threaded HTTP server for CRUD requests, TCP load balancer with round-robin algorithm + health monitoring.

Computer Vision football analysis | *Python*
Using open-source datasets, formed bounding boxes to track ball and player positions, distance covered on match replays

High frequency stock data processor | *C++*
Real-time stock data processing from API to calculate technical indicators

Online real-time pub-quiz application | *Python, Django, React JS, TypeScript, PostgreSQL*
Team of 6, real-time live web quiz application using Django (web-sockets and back-end), TypeScript, and React

SKILLS, VOLUNTEERING & CERTIFICATIONS

- PADI Advanced Open Water Diver Certified
- Summer blockchain Student Research Assistant at NYU (Abu Dhabi). Simulating Ethereum NFTs for energy allowance token trading with Solidity smart contracts and Node.js back-end
- IBM kubernetes and docker essentials course, AWS cloud practitioner, GitHub, Gerrit
- C#, C/C++, Python, Java, JavaScript, HTML, SQL, TypeScript, React.js, Django, Node.js, MongoDB, PHP, sci-kit