Tyler Goyea

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EDUCATION

University of Manchester — **Manchester, UK**
BSc Computer Science — *Sept. 2023 - June 2026*

- Year 1: First Class (1:1), Year 2: First Class (1:1)
- **Modules**: Algorithms & Data Structures, AI & Machine Learning, Programming Languages & Paradigms, Computer Graphics, Logic & Modeling, Database Systems, Computer Architecture & Engineering, Operating Systems, C, C++
- **Projects**: FPGA board buzzer jukebox using Verilog | Real-time online quiz application in team of 4 | Email spam filter with Python | Events management website (Java, Spring Boot, JUnit, JavaScript, HTML) | Python Infinite 2D runner game | Amazon internal employee management demo (SQL, PHP, JavaScript)
- Software Developer at Computer Science Society with team of 6 developers: https://www.unicsmcr.com

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 - May 2026*

- Developing hybrid cloud flash storage infrastructure solutions using Java, Python, and C
- Building split storage partitions and synchronization across separate servers for large enterprises with disaster recovery
- Scheduling of foreground and background tasks across distributed storage systems
- Creating tests with PyTest and JUnit
- Sole development of issue diagnosis triage Slack-bot for internal use by the IBM Storage Department

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, and React.js
- Developed Account Reconciliation Program for 20 Finance Department staff that auto-generated summaries in Excel

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

- 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 data logging, telemetry, and data visualization
- C programming for microcontrollers to develop battery inverter command mappings

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

- Generated payment vouchers for material purchases
- 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

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

Edge Detection for images | *C++, OpenCV*
Canny edge detection and Hough lines to detect polynomial-lined edges

High frequency stock data processor | *C++*
Real-time stock data processing from API to calculate statistics including moving averages

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
- Blockchain Student Research Assistant at NYU (June 2022 - July 2022). Developed React-based web application simulating Ethereum NFTs for energy allowance token trading, implemented Solidity smart contracts and Node.js back-end
- Animal Rescue Volunteer (1 month). Nursed ill stray animals, provided medication, repaired shelter
- C#, C/C++, Python, Java, JavaScript, HTML, SQL, TypeScript, React.js, Django, Node.js, MongoDB, PHP