

# Tyler Goyea

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## EDUCATION

### University of Manchester

BSc Computer Science with Industrial Placement

Manchester, UK

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:** Email spam filter (Python, classification) | Events management site (Java, Spring Boot, JUnit, JS, HTML) | Amazon Employee management demo (SQL, PHP, JS) | FPGA buzzer jukebox (Verilog)
- Software Developer (team of 6) @ Computer Science Society

### British School of Al Khubairat

A-Level

Abu Dhabi, UAE

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

IBM

Hursley, UK

July 2025 - May 2026

- Delivering code to customers in a \$1 billion dollar Annual Recurring Revenue product
- Hybrid Cloud Distributed storage development using mainly Java, Python, Unix/Linux (+ some C)
- Developed storage partition splitting and data transfer orchestration whilst preserving High Availability
- JUnit and PyTest tests for product-wide features (50+ tests fixed and implemented)
- Leading development of issue diagnosis triage Slack-bot (Golang, SQL, React.js) for IBM internal use by 100 employees

### Electric Vehicle Software Team

University of Manchester Formula Student

Manchester, UK

Oct. 2024 - Feb. 2025

- Developing formula-style race car with 80 other students to compete against other universities in engineering competition
- Telemetry and data visualization (Jupyter) identifying 10% tire slippage around certain corners
- C programming for microcontrollers to develop battery inverter command mappings

### Software Engineer Intern

Al Jaber Group

Abu Dhabi, UAE

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 Leave request system for 100+ employees (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

Al Jaber Group

Abu Dhabi, UAE

June 2024 - July 2024

- Processed invoices and LPOs to generate payment vouchers using Oracle JD Edwards EnterpriseOne (\$50,000+ authorized)
- Reconciled A/P and A/R accounts in company database (supported by Excel)

## PROJECTS

### Online real-time pub-quiz application | Python, Django, React JS, TypeScript, PostgreSQL

Real-time pub-quiz app with web-sockets, live demo with 120 simultaneous connections and further scalability potential

### Edge detection using Canny Filter, Hough Lines and Polynomial Fit| C++, OpenCV

Conducted pre-processing and detection of Image boundaries with +5 pixel precision

### Complex CLI Board Game - Magic Bakery | Java, Junit

implementing Magic Bakery with JUnit testing after designing a UML (100+ unit tests)

### Networking projects | Python, Golang

Multi-threaded HTTP server for CRUD requests, TCP load balancer with round-robin algorithm + health monitoring.

## SKILLS, VOLUNTEERING & CERTIFICATIONS

- PADI Advanced Open Water Diver Certified
- Frameworks: React.js, Node.js, Springboot, Django, Express.js, .Net
- Technologies and Certifications: IBM kubernetes and docker essentials course, GitHub, Gerrit, AWS Certified Cloud Practitioner
- Languages: C#, C/C++, Python, Java, JavaScript, SQL, TypeScript, PHP