

# 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)
- Projects: FPGA board buzzer jukebox using Verilog | real-time online quiz application in team of 4 | Email Spam filter with python | Java JUnit tests | python infinite 2d runner game
- Year 2: Algorithm & Data Structures, AI & Machine Learning, Programming Languages & Paradigms, Computer Graphics, Logic & modeling, database systems, C, C++, Haskell
- Top 10 in University programming competition <https://ukiepc.info/>
- Software Developer at Computer Science Society rebuilding society website 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)
- Academic Scholar, Sports Scholar, Gold UKMT x2, UAE National Football champions

## EXPERIENCE

### Software Engineer Intern

Abu Dhabi, UAE

Al Jaber Group

Aug. 2024 - Sept. 2024

- Enhanced legacy code base 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 a leave request generation site with MongoDB, Node.js, Express.js, and React.js
- Developed Account Reconciliation Program for Finance Department staff that auto-generated summaries in Excel

### Electric Vehicle Software Team

Manchester, UK

University of Manchester Formula Student

Oct. 2024 - present

- Developing a formula-style racecars with 80 other students to Race other Universities in Engineering competition
- Collaborate with hardware teams to integrate software solutions for data logging, telemetry, and data visualization
- Gain proficiency in C programming for microcontrollers to develop firmware for sensor interfacing
- Conduct testing and implement robust fault handling mechanisms to ensure the reliability and safety of embedded systems

### 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
- Reconciliation of A/P and A/R accounts in company database

### Blockchain Student Research Assistant

Abu Dhabi, UAE

NYU (International Site)

June. 2022 - July. 2022

- Tried ideas conceived by supervising professor, developed React-based web application with 3 Student Assistants
- The application simulated the use of Ethereum NFTs to trade energy allowance tokens by government agencies and firms
- Met 3 Sustainable Development Goals, implemented Solidity Ethereum smart contracts, and built a Node.js back-end

## PROJECTS

### Computer vision football match analysis | Python

Using open-source datasets, formed bounding box to track the ball, players positions, distance covered on match replays

### MU0 Processor on FPGA board | Verilog, Python, Assembly

Using Naive Bayes Classification trained on real-world internal company emails and spam emails, 95% accuracy

### Matrix Manipulation Library | C

Library created for handling Matrix Manipulation in C, with automated Tests

### 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
- Animal Rescue Volunteer (1 month). Nursed ill stray animals like dogs and cats, providing medication, repairing shelter
- UKMT GOLD (2 times)
- C#, C, Python, Java, JavaScript, HTML, CSS, Typescript, ReactJs, Django, Node, SQL, MongoDB, MS Excel
- private tutoring (9 months)