

Benjamin Gilchrist

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Profile

MSc Computer Science student (Loughborough, expected Distinction, Sept 2026) with a BSc in Computer Games Technology. Built a real-time F1 data application processing live and historical race data via the OpenF1 API, including WebSocket-based data handling and race replay logic. Proficient in C#, Python, and JavaScript, with a background in object-oriented system design from multiplayer game development. Seeking a software engineering role.

Education

Loughborough University: Sept 2025 – Sept 2026

Computer Science MSc – (Algorithms, Software Engineering, Object Oriented Programming)
- Expected: Distinction

Anglia Ruskin University: Sept 2021 – July 2024

Computer Games Technology BSc (3D Environments, Unity, Unreal Engine, Real Time Environments)
- 2:2

Comberton Sixth Form: Sept 2019 – May 2021

Business BTEC
- D*DD

Swavesey Vilage College: Jan 2015 – Jun 2019

Mathematics
- 6

Swavesey Vilage College: Jan 2015 – Jun 2019

English Language
- 4

Swavesey Vilage College: Jan 2015 – Jun 2019

English Literature
- 4

Swavesey Vilage College: Jan 2015 – Jun 2019

Combined Science
- 6:5

Technical Proficiencies

Languages: C#, Python, Java, C++

Web: HTML, CSS, JavaScript

Databases: SQL

Concepts: Object-Oriented Programming, Data Structures & Algorithms, Networking Fundamentals

Tools: Git, Visual Studio, Eclipse

3D Environments: Real Time Environments, Unreal Engine, Unity

Soft Skills

Communication: Strong ability to communicate within a team, keep management updated and ensure communications are clear and concise under pressure

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Problem Solving: Able to break down complex problems into smaller, more manageable parts and finding practical solutions

Time Management: Strong ability to work up to deadlines, and prioritizing work needed to be completed.

Ownership: Take responsibility for all assigned work and ensure tasks are completed to a high standard

Analytical Thinking: Evaluate information, identifying patterns and acting on technical problems

Teamwork: Work within a team, collaborating with different disciplines towards a shared task.

Projects

F1 Telemetry Website:

- Built a full-stack F1 timing web app processing live and historical race data from the OpenF1 API, architecting session/lap/driver endpoints into a real-time timing tower and race results view
- Work with OpenF1 API to extract information and process the data to display the correct information
- Built responsive layouts using CSS Grid and Flex to handle dense, real-time tabular data across screen sizes
- Debugged and worked around live API authentication/CORS constraints, adapting the data pipeline when real-time access required paid auth

Python Database Management:

- Developed a Python application to ingest and process CSV datasets
- Implemented data cleaning keeping only relevant data and transformation logic for inconsistent entries
- Generated data visualizations so users can analyze trends and insights

Mars Rover Control:

- Designed and implemented an object-oriented simulation of mars rover movement
 - Applied OOP principles
 - Developed command processing to control navigation across a grid outputting final location.
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Professional Experience

Supervisor, Nandos: Jun 2026 – Current

- Lead and coordinate front and back of house to deliver smooth and efficient shift operations
- Supervise shift performance ensuring food quality, cleanliness and health and safety standards are met.
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- Working with upper management to meet targets and resolve any issues in the store.
- Ensure daily KPI's are met such as food delivered to customers in under 10 minutes and keep gross product in line with expected values

Nandoca, Nandos: Oct 2023 – Jun 2026

- Maintain food quality and consistency in a fast-paced kitchen environment
- Operate under sustained peak-hour pressure while meeting service time KPIs
- Collaborate with management to optimize workflow and uphold brand standards
- Balance speed, accuracy, and quality control during high-volume service periods