Harvey Leach-Emmerson

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Personal statement

A fourth-year Software Engineering student currently pursuing an integrated master's degree at the University of Hull. Committed to continuous learning and known for strong communication skills that foster effective collaboration among peers. Always eager to contribute new ideas and deliver fresh, innovative solutions to challenging problems. Has proven teamworking and management abilities which create strong, efficient teams capable of tackling complex problems.

Projects

- **Demonstrator management toolkit**: Created a full stack web application with an automatic scheduling system for assigning students to labs, with a CI/CD pipeline setup for automatic unit testing and deployment to a windows VM. Used an HTML frontend, C# .NET Web API backend and MySQL database.
- **Building management system**: Developed a C# console-based application to help building managers track renovation and building costs, and sale revenues.
- **Who-Is**: Developed a C# console-based server using sockets which interacted with a MySQL database to track and update data regarding a company's employees
- **Gym tracker**: Built a full-stack web application that gamified and tracked users' workouts and provided training tips and tutorials. Used an HTML frontend, C# .NET Web API backend and MySQL database.
- **Student wellbeing app**: Created a C# WPF program which interacted with an SQLite database to increase communication between students and supervisors.
- **Cruise manager**: A C# console-based application which used XML to store and retrieve information on the cruises, included planned trips, ports and passengers.
- **Transport network program to support route-finding and evaluation**: A C++ Console-Based application which supports efficient route planning within a network of nodes containing locations and connections between locations with specific transport types (car, bike, bus, train, walk). Implemented a breadth-first search algorithm to find the shortest route between two locations given a certain transport type.

Skills

- 7 years of programming experience in C#
- 2 years of front-end experience with HTML, CSS, JavaScript and TypeScript
- 2 years of API development experience, working with .NET Web API and RESTful API's
- 3 years of experience working with SQL and databases, including MySQL and Entity Framework
- 2 years of experience working with Agile development and Scrum
- Knowledgeable in GitHub CI/CD pipelines
- Knowledgeable in Azure DevOps for project management
- 3 years of experience unit testing, using MSunit tests for C# and unit testing with Python.

Education

MEng: Computer Science (Software Engineering) [2022-present]

University of Hull

- On course to achieve a 1st class MEng degree, with an average grade of 79%
- Achieved 80% in the Honours Stage Project - Demonstrator Management Toolkit.
- Key modules:
  - Distributed systems programming: 82%
  - Databases and networks: 62%
  - Architecture, Operating Systems and the Cloud: 84%
  - Design, Develop, Deploy: 80%
  - Secure, Digital, Infrastructure: 81%
  - Advanced programming: 95%
  - User Interfaces and Experience: 89%

A-Levels

- Sirius Academy West: Mathematics: A, Computer science: B, Business studies: C

Work Experience

Laboratory demonstrator, University of Hull [2024-present]

Hull, Kingston upon Hull

- Experienced working with lecturers to create an efficient working environment
- Gained experience in aiding students with their work
- Gained communication skills, learning how to interact with people in a friendly, professional manner

Student mentor for ASCENT, University of Hull [September 2023- April 2023]

Hull, Kingston upon Hull

- Mentored Year 11's in preparation for GCSEs in the three separate sciences.
- Created one-hour one-on-one lessons from scratch
- Gained experience in aiding students with their work
- Gained communication skills, learning how to interact with people in a friendly, professional manner

Awards and accomplishments

- Became the vice president of the University of Hull's Computer Science Society in 2025.
- Awarded the 'Outstanding Contribution to Student Experience' award in 2025 by the University of Hull

Hobbies and interests

- Continued development of honours stage project
- Competing in Hackathons and game jams