Sebastian Tarabadi

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Personal Statement

I am a second-year Computer Science student with a strong passion for developing software of all kinds. With an ever-growing array of programming languages and tools at my disposal, I am always eager to leverage new technologies. My goal and passion is building innovative software solutions that effectively address real-world problems and I find great fulfilment in doing so. I thrive on challenges and I am dedicated to continuous learning in this ever-evolving landscape.

Education

BSc (Honours) Computer Science, Sheffield Hallam University, 2023 – 2027

Predicted to graduate with a 1st class degree qualification

Completed Modules:

- Advanced Programming – 89%
- Fundamentals of Maths and Computer Architectures – 89%
- Software Projects – 80%
- Algorithms and Data Structures – 75%
- Programming for Computer Science – 74%
- Databases and the Web – 62%

A-levels, Trent College, 2021 – 2023

A-levels in Physics, History, Design & Technology (Product Design)

Work experience

Dolce Restaurant Nottingham, September 2021 – August 2023

- Worked part-time on busy Friday & Saturday nights as both kitchen staff & front of house, working efficiently in a way that ensured all customers were equally pleased with their service.

Technical Skills

Programming Languages: C#, C++, HTML, CSS, PHP, Python, JavaScript, SQL (SQLite), GDScript

Frameworks & Libraries: React, Phaser

Software & Tools: Visual Studio, Visual Studio Code, Sublime Text, Godot Engine, DB Browser for SQLite, Git, Canva, MockPlus

Soft Skills

Teamwork, Communication, Problem-Solving, Time Management, Self-Motivation & Initiative, Eager to Learn with an insatiable desire to expand technical expertise and experience.

Recent Projects *(More in-depth project descriptions along with additional projects can be found on my website)*

Hockey Whiteboard (Personal):

Developed a feature-rich web application for creating and exporting ice hockey drills, possessing customizable rink layouts, a wide array of brush styles and placeable counters, undo & redo functionality, and more.

Technologies Used: React, JavaScript, HTML, CSS, Git

GitHub Repository: https://github.com/sebtarabadi/hockey-whiteboard

Smart-Home System (Academic):

Designed and developed a CLI-based Smart-Home System, replicating real-world functionality. Went beyond the taught curriculum by incorporating more advanced C++ features. The project includes: multi-threading, strong object-oriented design, extensive use of pointers, including smart pointers and function pointers, RTTI, and more. The project was awarded a high 1st.

Technologies Used: C++, Git

Trophies & Tombstones - Game (Personal):

Developed a fully-fledged game from scratch along with an additional contributor for a 'gain wealth, lose health' themed game jam. Players exchange health for wealth and then gamble in casino games trying to win as much wealth as possible whilst keeping their health loss to a minimum.

Technologies Used: Godot, GDScript, Canva, Git

Currency Transfer CRUD Application (Academic):

Developed a currency transfer CRUD application that simulates core functionalities of popular money transfer services, featuring account creation, multi-currency transfers, security measures with account locking, and a support ticket system for user enquiries and admin resolution.

Technologies Used: HTML, CSS, PHP, SQL (SQLite), MockPlus, Git

Outside Interests

Ice Hockey

- Active participant in both competitive and recreational leagues, playing year-round, fostering teamwork and strategic thinking.

Natural Bodybuilding

- Committed to competitive drug-free bodybuilding with experience training both under and alongside top competitors in Men's Physique, demonstrating discipline and dedication.

References – Available upon request