

Liam O'Brien

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Education

Southern New Hampshire University – GPA: 3.58

Exp. Dec 2025

Bachelor of Science in Computer Science

Manchester, NH

Skills

Languages: Python, JavaScript, C++, SQL

Frameworks: React, Node.js, Flask, React Native

Databases: MongoDB, MySQL, SQLite

Development Tools: VScode, Git/Github, Anaconda, Eclipse, Deepnote, Jira, Unity, Arduino

Projects

SafeHaven Banking / Tech: Expo.go, Node.js, React Native, SQLite

- Led the development team as Scrum Master to create a mobile banking app using Expo Go and JavaScript. Coordinated sprints and retrospectives, ensuring the team met project deadlines.

Arduino Robot / Tech: Arduino IDE

- Developed a Bluetooth-controlled robot using an Arduino Mega board. Integrated Bluetooth functionality for remote control, gaining hands-on experience in embedded systems.

Tower Defense Game / Tech: Unity

- Developed a tower defense game using Unity and C++. Acted as Product Owner, managing the development lifecycle while contributing to game design and programming.

Relevant Coursework

CS-300: DSA: Analysis and Design

Focused on advanced algorithmic design and analysis of complex data structures. Developed solutions for real-world problems using various non-coding methodologies and algorithmic techniques.

CS-250: Software Development Lifecycle

Explored the stages of the Software Development Lifecycle (SDLC), with a focus on Agile methodologies. Learned how to develop high-quality software and assessed the importance of documentation and communication in the SDLC process.

CS-328: Embedded Systems

Covered key aspects of embedded system design, including microcontroller programming, interfacing, and analog circuit integration. Gained hands-on experience working with assembly languages and higher-level system development.

CS-411: Artificial Intelligence

This course provides an introduction to the theories, methods and problems of AI. Knowledge representation, natural language processing, computer vision, neural networks, path finding (A*, navigation meshes) and machine learning will be covered. Discussion of concepts such as intelligence, cognition, personality, and the Winograd/Turing test will be addressed. Practical implementations will be explored in the context of game AI.

Extracurriculars

SNHU Esports Program – Valorant Player: Balanced a demanding practice schedule with academic responsibilities, showing strong time management and dedication. Built teamwork, communication, and problem-solving skills in high-pressure, competitive environments.