Daniel Kusmaul - Resume

Tewksbury, MA
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SUMMARY

Interested in advancing as a Software Engineer, offering experience in software development, knowledge of hardware and strong troubleshooting skills. Frequently identified as a hard-working self-learner that can adapt and absorb to the fast-paced technology industry.

Experienced Programming Languages: C/C++, Python

Familiar Programming Language: JavaScript, Assembly

Scripting Languages: HTML, Bash Shell, Markdown

Documentation: MS Office, LaTeX

Others: ROS (Robot Operating System), Linux, Docker, Git, GitHub

EDUCATION

B.S. **Computer Science** – University of Massachusetts Lowell, 2022-2026 (Expected Graduation)
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Design (C++), Fundamentals of Robotics, Logic Design

A.S. **Computer Science** – Middlesex Community College, 2021-2022

HS **Tewksbury Memorial High School**, 2021
GPA: 3.4 | Activities: Ice Hockey, Track and Field

EXPERIENCE

Intern - Entakt, Portsmouth, NH
June 2022 - August 2022
Web development, marketing information & basic IT system management.

Ice Hockey Official - USAHockey Colorado Springs, CO
October 2017 – Current
Officiated Youth and High School level ice hockey using split second decision-making and strong communication skills with coaches, players and other officials in a high-pressure environment.

Mason Laborer – Post Construction Tewksbury, MA
Summer 2018 – 2023
Aided and communicated with other co-workers to construct and repair structures. Worked as an additional seasonal summer job.

ACADEMIC PROJECTS

Evil Hangman (in C)
Created a hangman terminal game, which the computer cheats by actively dodging players' guesses. Implemented with every word in the dictionary. Strong use of AVL Trees, Encapsulation, String Processing, File I/O, Sorting, and Searching Algorithms.

Barcode Converter (in C++)
Emulating a poster service scanner, users may input a 25-digit number or a zip code. The program will convert the number to each type using a user-defined key to identify where each package needs to be shipped to.

LFSR Image Encryption Tool (in C++)
Using a Linear Feedback Shift Register method, users can encrypt an image using a 16-bit key seed for the image, and using that same seed decrypts the image using the SFML Library.

ACTIVITIES

UML Robotics Club
Current Programming Leader in the Riverhawks Robotics Club. Teaching Raspberry Pi, ROS, Python and C++ to build IoT Devices and robots for competitions and community service.

Web Development
Self-taught HTML, CSS and WordPress. Currently self-learning Django, React and JavaScript with a goal of creating full stack web applications.