Liam B. Dyer

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Professional Summary

Senior Computer Science student at the University of Alaska Anchorage with over 3 years of programming experience through coursework and personal projects. Knowledgeable in programming, full-stack development, APIs, and quick to learn new technologies.

Education

Bachelors of Computer Science, University of Alaska Anchorage, **GPA:** 3.2 **December/2023**

Relevant Coursework: Computer Programming I & II, Data Structures and Algorithms, Database Systems, Computer Networks, Software Engineering, Professional Writing, Machine Learning

Capstone (In Progress): Developing a Lexical Automatic Text Simplifier for those with hearing impairment

Skills

Programming Languages: C++, Python, JavaScript, HTML/CSS, SQL

Skills: Debugging, Software Development, Unit Testing, Project Documenting, REST

Tech: VS Code, Git, Github, Postman, Heroku, NodeJS, Jupyter Notebooks, Docker, PostgreSQL, Google Workspace, Microsoft Office, JSON, Linux, Zoom

Libraries/Frameworks: React, Catch2, Scikit-Learn, Flask

Projects

Huffman Compressor and Decompressor (github.com/liam2258/HuffmanCompAndDecomp)

A program that can compress and decompress files using Huffman Coding.

- *Coded project from scratch using C++ and the Standard Library*
- *Utilized Huffman Binary Search Trees for compression/decompression*
- *Tested code using Catch2 and Pytest library*

Profile Website (github.com/liam2258/PortfolioWebsite)

A personal profile website created using responsive web design.

- *Designed responsive front-end using Javascript, React, JSX, and CSS*
- *Created a RESTful email API in Python and connected it with a Postgresql database*
- *Containerized back-end using Docker and deployed on Heroku*

Work Experience

Student TA/Grader

University of Alaska Anchorage **August/2023 - Present**

- Assisted students with programming labs
- Graded and created programming exercises
- Debugged and reviewed code