Ethan Denny

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Education

Memorial University of Newfoundland **Sep 2021 – Present**
B.Sc. in Computer Science (Honours) 3.96 GPA
Coursework: Visual Computing & Applications, Algorithmic Techniques for AI, Theory of Computation
Activities: Computer Science Society, Eastern Edge (underwater ROV team), MUN Students' Union

Experience

Memorial University **May 2024 – Aug 2024**
Research Assistant
- Built a matrix multiplication library in **Rust** that uses finite fields
- Emphasis on speed and security; work was intended for use in future cryptography research

Avalon Holographics **Jan 2024 – Aug 2024**
Software Co-op Student
- Worked with a team to iterate quickly on **C++** applications for best-of-class holographic displays
- Built out complete features involving web APIs, shaders, and custom data formats

MUN Visual & Analytic Computing Lab **Sep 2023 – Dec 2023**
Software Developer (Student)
- Worked on a lightfield simulator written in **C++**
- Developed a new method of storing and reading lightfield simulator states
- Refactored critical code, making development easier going forward

MUN Visual & Analytic Computing Lab **Jun 2023**
Machine Learning Developer (Student)
- Learned the basics of building machine learning models using **Python**
- Worked with a team to build custom workflows and documentation for the tracking software MLflow
- Directly supported research focused on early detection of breast cancer

Genoa Design **Jul 2021 – Aug 2021**
High School Intern
- Developed a virtual training game with **Lua** and Tabletop Simulator, which Genoa intended to implement as part of their employee onboarding process
- Used **Python** to build a proof-of-concept for using graphs to visualize connections between ship compartments

Projects

Connect2
- Built a mock social media app for a hackathon using **React**, that envisioned a new way of interacting with a feed
- Led a team of six to winning an award for Best Design

"Lossless Compression Techniques for Grayscale Images"
- Created with a team as part of Memorial University's course COMP 3301: Visual Computing and Applications, using **Python** and **C**
- Purpose was to generate data for comparisons of different lossless compression algorithms in terms of space savings and run time

Awards

D.O. IT Hackathon; Best Design May 2024
techNL Making Waves Innovator Scholarship Jan 2024
Dean's List for the MUN Faculty of Science 2021-2022, 2022-2023