

John Berg

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Education

Tufts University, Medford MA
Fall 2021 - Spring 2025
B.S. in Computer Science, Minor in Mathematics
GPA: 3.92 / 4.0

Experience

Good Energy, L.P., New York City, NY
Intern | May 2023 - Aug 2023

- Managed databases to update and enter customer data
- Interfaced with existing program members and prospective customers
- Developed database of utility default rates and prices to compare for retail Electricity and Natural Gas customers

Code Ninjas, Norwood, NJ
Camp Director | June 2022 - Aug 2022

- Utilized Python, Lua, and Scratch to teach basic programming skills to adolescents
- Manipulated video games (Roblox, Minecraft, etc) to create fun programming experience

Relevant Coursework

Data Structures & Algorithms
Intro to Security
Bridge to Higher Mathematics
Machine Struc. & Assembly Language Programming
Linear Algebra
Software Engineering
Intro to Digital Electronics
Calculus III

Skills

Programming: C++, C, Java, Python, x86 assembly, HTML, CSS, JavaScript, React

Additional: Google Suite, Excel, Intermediate Spanish, Intermediate Japanese

Activities

Treasurer of Tufts Club Lacrosse • Tufts Investment Club • Engineers Without Borders • JumboSec • Intramural Football, Dodgeball & Basketball

Projects

Image Compressor & Decompressor

Tufts University, Spring 2023

- Implemented a lossy jpeg compressor and decompressor in C
- Utilized color space conversion, quantization, bit packing, etc.

Travel Journal

Personal, Summer 2023

- Developed web application that acts as a journal for travel information using React.js
- Utilized props in React to efficiently display sets of data

Grep Command

Tufts University, Fall 2022

- Replicated the grep command in C++ to search for text in directories
- Implemented a quadratic probing hash table to store and retrieve text from