

Alison Chu

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EDUCATION

Rutgers University, School of Arts and Sciences (Honors Program)

New Brunswick, NJ

Bachelor of Science in Computer Science

May 2025

GPA: 3.8 / 4.0

Relevant Coursework: Data Management for Data Science, Numerical Analysis and Computing, Design and Analysis of Computer Algorithms, Data Structures, Discrete Structures, Linear Algebra, Linear Optimization, Minds Machines and Persons, Social Engagement in Extended Reality, Computer Architecture, Calculus I/II

EXPERIENCE

Publicis Sapient, Software Engineering Intern

June 2024-August 2024

- Developing AI-powered chatbot that automates cloud resource provisioning by generating and deploying infrastructure-as-code modules based on user specifications using JavaScript, Node, and Azure AI
- Leveraging NLP techniques to optimize developers' efficiency by reducing configuration time and minimizing human error
- Created weather app using JavaScript, Node, Express, and API integration for real-time updates, incorporating security practices to protect user data and design practices for user-friendly interface features
- Collaborated in an agile environment, fostering a flexible structure to meet and exceed customers' needs on time

Millennium Footwear, Technical Intern

June 2021-August 2021, June 2022-August 2022

- Spearheaded end-to-end creation of Millennium Footwear's official website, incorporating a continuous feedback loop with company team to align with the company's brand and vision
- Applied consumer behavior insights to improve buyer appeal through the development of interactive web features
- Coordinated photoshoot for website by researching, contacting, and managing photographers and models
- Analyzed market trends to assist buyers and design team with identifying key trends for future products

Haworth Swim Club, Lifeguard

June 2018-August 2018, June 2019-August 2019

- Inspected pool facility and equipment to ensure safe conditions
- Managed rotation of 10 lifeguards between sections of swim club each day
- Identified staffing gaps and recruited extra lifeguards to respond to emergency situations and minimize risk

PROJECTS

Huffman Coding Data Compression Algorithm

March 2023

- Implemented Huffman coding algorithm for file compression and decompression, utilizing priority queues, binary trees, arrays to manage character frequencies, generate encodings, and perform compression and decompression operations
- Utilized bitwise manipulation and string concatenation to efficiently convert characters to binary encodings and generate final compressed bit string
- Employed arrays and loops to calculate character frequencies, ensuring accurate encoding probabilities for efficient compression

2048

February 2023

- Recreated the 2048 puzzle game using array lists and 2D arrays, implementing core game mechanics and logic
- Applied object-oriented programming principles to organize code into reusable methods, enhancing code readability and maintainability

Bloom

May 2022

- Designed an app utilizing game mechanics, including leaderboards and reward systems, to incentivize users to assist their local community with tasks such as snow shoveling and car cleaning
- Learned augmented reality 3D modeling and game development through Unity tutorials
- Implemented an augmented reality feature that allows users to locate other users in real-time

TECHNICAL SKILLS

Java JavaScript HTML/CSS C SQL MATLAB Swift SwiftUI IntelliJ Visual Studio Code Photoshop Adobe Illustrator
Git/GitHub Python AWS NLP AI GraphQL EJS NODE EXPRESS Figma Notion Confluence Jira React TypeScript