

SHEN LIU

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📍 Boston, MA

CAREER OBJECTIVE

As a dedicated computer science student, I am passionate about integrating my academic knowledge with personal interests to develop tangible, innovative projects. I am actively seeking opportunities in any relevant position that will allow me to expand my skills and knowledge base. I thrive on the process of acquiring new skills and am eager to apply my learning in practical, real-world situations.

EXPERIENCE

High School

[Changzhou Senior High School](#)

📍 [Changzhou, Jiangsu, China](#)

- Served as team leader in a RC car racing program organized by TEN80 Education, overseeing engineering upgrades to the RC car and directing team promotional efforts.
- Worked as a volunteer at a Disabled Children's Center, providing support and care to children with disabilities.

Course Work

[Boston University](#)

📍 [Boston, MA](#)

- Mastered Python programming in CS111
- Acquired Java skills in CS112
- Studied combinatoric structures in CS131
- Gained proficiency in Unix, assembly language, C, and computer systems through CS210.
- Enhanced data analysis capabilities using R language in MA415
- Explored distributed systems and the Go programming language in CS350, focusing on case studies like MapReduce and Raft
- Developed comprehensive software engineering skills in CS411, covering front-end, back-end, and database management

Projects

Self-made projects

Game Design

Self-developed mini games

- Developed a first-person shooter game by leveraging my knowledge of Unity and C#, incorporating fundamental game design principles throughout the development process
- Collaborated with a peer to create a Japanese history-themed visual novel, utilizing original narratives, character designs generated through Stable Diffusion, and self-developed game mechanics

Website Holding

Self-held blog website

- Managing a self-hosted blog that documents my own academic studies and hobbies, deployed on Google Cloud Platform
- Utilizing Cloudflare for continuous monitoring and maintenance to ensure website performance and security
- Integrated Mailgun for reliable email delivery, facilitating newsletter distribution and subscriber engagement

Web Application

Self-developed full-stack web application

- Developed a full-stack web application in a team of three, leveraging the React framework for the frontend and Node.js for the backend, with MongoDB for data storage
- Implemented user registration and login functionality utilizing Google authentication for a secure and convenient sign-in process
- Integrated multiple APIs in the application for seamless file format conversion, translation, and summarization capabilities for user-uploaded files
- Functioned as the team leader, orchestrating project schedules and delegating tasks to optimize workflow and productivity

Case Study

Paper-based reproductions

- Conducted an in-depth case study involving the reproduction of complex computational models and algorithms as described in academic literature.
- Successfully replicated the MapReduce model, demonstrating proficiency in parallel computing and large-scale data processing techniques.
- Recreated the Raft consensus algorithm, showcasing an understanding of distributed systems and fault-tolerant architecture.

EDUCATION

Junior Student
Math & CS Joint Major
Japanese Minor

[Boston University](#)

📅 2021 - current

📍 [Boston, MA](#)

SKILLS

Softwares:

- HTML/CSS
- Bootstrap/Tailwind
- css Adobe
- Photoshop
- Adobe Illustrator
- Adobe Premiere
- Unity
- MMD
- GitHub

Coding Standards:

- Java
- Python
- C
- C#
- Go
- HTML
- JavaScript
- Typescript

Language:

- Madrain
- English
- Japanese

CERTIFICATIONS

- All Year Dean's List
- GPA 3.75

INTERESTS

- Blogging
- Cooking
- Story Writing
- Anime
- Pop Music
- Singing
- Guitar