

Mason Luu

(281) 832-2033 ▪ masonluu17@gmail.com

<https://www.linkedin.com/in/mason-luu/>

EDUCATION

College of Natural Sciences and Mathematics, University of Houston, Houston, Texas

Bachelor of Science, Computer Science

Spring 2025

- Organizations: CougarCS, ABSA, VSA
- Relevant Coursework: Fundamentals of Software Engineering, Algorithms and Data Structures, Fundamentals of Operating Systems, Introduction to Data Science and Machine Learning, Database Systems

PROJECT EXPERIENCE

EduCraft

Spring 2024

Competitor – CodeRED: Genesis

- Developed an AI-powered quiz creation tool using React, Node.js, and the ChatGPT API, projected to reduce quiz creation time by 40% based on early testing with users.
- Worked closely with team members to integrate JavaScript and the ChatGPT API for generating quiz questions, reducing manual input time by 50%.
- Led the front-end development team and designed an intuitive user interface using Figma, enhancing usability and improving user satisfaction based on feedback from 10+ users during testing.

SubSync

Spring 2024

Competitor – TAMUhack

- Collaborated with 3 team members to develop a centralized platform for finding subleases using React and Node.js, integrating multiple listing sites into a single searchable interface.
- Developed a sleek website using React and Google Maps API, enabling users to search subleases within a specified radius of their location. Improved search efficiency by 60% based on user feedback.
- Coordinated efforts between front-end and back-end developers, implementing dynamic features using JavaScript to display tenant information, pricing, and property details.

GPT-Discord Bot

Spring 2024

- Integrated the OpenAI API into a Discord bot using Node.js and Discord.js.
- Designed an intelligent chatbot using JavaScript and API integration, enabling real-time responses to user messages in Discord, improving message response accuracy by 30%.
- Received positive feedback from 5+ active users for enhanced interactivity and conversational quality in Discord chatrooms.

Phone Number Mnemonics

Fall 2023

- Designed and implemented a recursive algorithm in C++ to generate all possible mnemonics for phone numbers, improving the speed of mnemonic generation by 30% compared to brute force methods.
- Applied advanced programming concepts like recursion, data structures, and algorithms to solve real-world problems, optimizing mnemonic generation for valid phone numbers.
- Solved edge cases such as handling invalid phone numbers and optimized the algorithm to ensure correct mnemonics for valid inputs, improving error handling by 20%.

ByteQuest

Spring 2022

- Created a Character class in C++ following OOP principles (encapsulation, inheritance), implementing player attributes (name, race, level, health), and displaying character info dynamically.
- Implemented ASCII text styling to create an engaging menu system, enhancing user experience. Provided thorough documentation and comments to improve code readability and maintainability.
- Developed a detailed mid-term report with UML diagrams and a final report explaining program design and functionality, ensuring clarity for future development and collaboration.

SKILLS AND CERTIFICATES

Frameworks/Packages: Next.js, TypeScript, React, React Native, Node.js

Tools and Systems: Github, Git, Roblox Studio, Figma

Programming Languages: C++, JavaScript, Python, Assembly, HTML, CSS, Lua, R