

# Elijah Lieu

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## Objective

To contribute and expand my skills in software development through an **internship experience**.

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## Education

Bachelor of Science in Computer Science with Minor in Physics

December, 2024

*Florida State University (FSU)*, Tallahassee, FL

Cumulative GPA: 4.0 Major GPA: 4.0 President's List

Relevant Coursework: Data Structures & Algorithms, Computer Organization, C++

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## Technical Skills

Proficient: C++, Python, JavaScript, TypeScript, React, Next.js, Linux, SQL, HTML, CSS

Intermediate: Git, Go, Java, Rust, Svelte

Beginner: C, C#, Assembly, Pandas, NumPy, PHP, Electron, CMake

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## Projects

Programming Language Interpreter, *Personal*

August 2023 - Present

- Tokenized and parsed files using **Go** to interpret and execute custom C-like language.
- Tested implementations through extensive **unit testing** and **integration testing**.

Self-Organizing Binary Search Tree, *Coursework*

November 2023

- Implemented a **binary search tree** data structure in **C++** that **self-organizes to optimize** common searches.
- Debugged implementations using tools such as **gdb** and **valgrind** to detect where errors may occur.

Full-Stack Vocabulary System, *Personal*

May 2023 - August 2023

- Launched a full-stack application using **Linux**, **SQL**, and **React** for users to help learn vocabulary.
- Implemented web standards such as **HTTP**, **OAuth** to maximize security while maintaining functionality.
- Designed an **adaptive**, **accessible** user interface using **TailwindCSS** targeting both mobile and web screen sizes.

Web Design & Development, *3<sup>rd</sup> at State FBLA, 9<sup>th</sup> at National FBLA*

November 2021 - August 2022

- Prototyped a **mock e-commerce** site using **React** and **SQL** focused on consumer-to-consumer exchanges.
- Presented the product to a panel of judges to be **competitively scored** on product and demonstration.

Game Development, *3<sup>rd</sup> at State FBLA*

November 2020 - August 2021

- Designed a **puzzle platformer** game using **HTML**, **CSS**, and **JavaScript** via **Electron**.
  - Demonstrated the product virtually via screen recording using **Open Broadcasting Software**.
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## Leadership and Involvement

Society of Asian Scientists and Engineers (SASE) - *Event Coordinator*

August 2023 - Present

- Increased member attendance by **50%** through proactive outreach and creative programming.
- Organize monthly workshops for **40+** members for topics including resumes, networking, and career exploration.

Academic Center for Excellence Tutoring - *Computer Science and Physics Tutor*

June 2023 - Present

- Tutor **40+** peers one-on-one over **60+** appointments on-campus and virtually on topics such as data structures.
- Tutor **30+** peers in weekly group sessions on-campus involving custom reviews and discussion.