Elijah Lieu

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Objective

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

Education

<u>Bachelor of Science in Computer Science with Minor in Physics</u>   December, 2024

Florida State University (FSU), Tallahassee, FL

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

Relevant Coursework: Data Structures & Algorithms, Databases, Microarchitecture, C++

Technical Skills in Software Development
- Embedded: C, C++, Rust
- Front End: JavaScript, TypeScript, React, Next.js, HTML, CSS, Svelte
- Back End: SQL, Java, Go, Python, PHP, REST
- Game Development: C#, Unity, OpenGL, Godot
- DevOps: SSH, Linux, CI/CD, Docker

- General: Git, CMake, Assembly, TDD, SDLC, Open Source

Personal Skills
- Project Management
- Event Planning
- Teaching / Tutoring
- Time Management

Projects and External Experience

<u>Self-Organizing Binary Search Tree</u>, *Coursework*   November 2023
- Implemented a **binary search tree** data structure in **C++** to optimize common searches.
- Debugged implementations using tools such as **gdb** and **valgrind** to detect where errors may occur.

<u>Full-Stack Vocabulary System</u>, *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.

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

<u>Application Development</u>, *1st at State FBLA*   November 2019 - February 2020
- Developed a **Java** application for students to log community service and for admins to verify hours.
- Provisioned a remote **Linux** system hosting a **MySQL** database to store application data.

Leadership and Involvement

<u>Society of Asian Scientists and Engineers (SASE)</u> - *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.

<u>Academic Center for Excellence Tutoring</u> - *Computer Science and Physics Tutor*   June 2023 - Present
- Tutor **60+** peers one-on-one over **80+** appointments on-campus and virtually on topics such as data structures.
- Tutor **70+** peers in weekly group sessions on-campus involving custom reviews and discussion.