

Elijah Lieu

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Summary

Highly motivated, ambitious computer science undergraduate with 6 years of academic computer science experience in cybersecurity, backend and full-stack web development, and DevOps. Detail-oriented leader and team-oriented collaborator with a passion for learning and strong communication and organization skills.

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 Recipient of CyberCorps Scholarship for Service

Coursework: Data Structures & Algorithms, Databases, Computer Architecture, Cybersecurity, Operating Systems

Technical Skills in Software Development

- Programming: JavaScript, TypeScript, React, HTML, CSS, SQL, Java, Go, Python, PHP, REST, C, C++
- DevOps: Server Maintenance, SSH, Linux, Continuous Integration and Continuous Delivery (CI/CD)
- Cybersecurity: Cryptography, Forensics, Reverse Engineering, Symbolic Execution, Web Security
- General: Git, CMake, x86 Assembly, Test Driven Development, Software Development Lifecycle, Open Source

Personal Skills

- Project Management: Kanban Boards, Calendars
- Teaching / Tutoring: Computer Science, Physics
- Time Management: Software Defects, Slack Time
- Event Planning and Coordinating

Projects and External Experience

2019 - Present

F3D, Open Source

- Contributed to open source platform-agnostic 3D renderer for file preview thumbnail generation.
- Collaborated with senior software engineers to improve C++ test code coverage from 90% to 95%.
- Created and merged Git pull requests to the project containing version documentation, tests, and features.

Full-Stack Vocabulary System, Personal

- Launched a full-stack web application to assist users with vocabulary via customizable, searchable dictionaries.
- Implemented OAuth user authentication standard, resulting in a reduction of 200+ lines of code.
- Maximized security against common cybersecurity attacks such as cross-site scripting (XSS) and timing attacks.
- Designed a responsive, accessible user interface (UI) layout using CSS, targeting both mobile and web screens.

Web Design & Development, Competitive

- Produced proof-of-concept e-commerce site using React and SQL focused on student exchanges for fundraising.
- Collected feedback from faculty and students with a 95% approval rating.
- Presented the product to a panel of judges to be competitively scored on product and demonstration.
- Placed 9th out of 150+ teams at the national level after qualifying at the state level.

Leadership and Involvement

Capture the Flag Team @ FSU - Competitor

January 2024 - Present

- Competed in 10+ CTF competitions, improving team ranking to 15th in the nation.
- Solve competitive problems in cybersecurity using a variety of technologies to exploit attack vectors.

Academic Center for Excellence Tutoring - Computer Science and Physics Tutor

June 2023 - Present

- Tutor 80+ peers one-on-one over 100+ appointments on-campus and virtually on topics such as data structures.
- Tutor 70+ peers in weekly group sessions on-campus to host simulated course exams / assignments.
- Collected semester review data with over 85% passing rates for tutees compared to 70% for non-tutees.