

# Nicholas Lewis

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LinkedIn — Portfolio — GitHub

## Objective

Computer Science undergraduate with expertise in full-stack development, system design, software testing, and parallel computing. Passionate about building scalable applications, optimizing performance, and leveraging GPU programming for high-performance computing. Looking for roles in software engineering, parallel computing, test automation, or DevOps.

## Projects

### AI-Powered Mental Health Chatbot

*Hackathon — FastAPI, Hugging Face*

Developed an AI chatbot for stress management, mood tracking, and guided relaxation. Integrated Hugging Face's 'flan-t5-large' model for NLP and built a FastAPI backend. Conducted user testing and refined responses for better engagement.

*GitHub:* [github.com/nickLewisCSUS/MentalHealthChatBot](https://github.com/nickLewisCSUS/MentalHealthChatBot)

### Sac State LIFE Mobile App

*Team Lead — React Native, Azure, Node.js*

Led development of a student-focused mobile app with AI-driven features, event recommendations, and wellness support. Managed Agile sprints, oversaw API development and aligned with accessibility/authentication requirements.

*GitHub:* [github.com/Sac-State-Mobile-App-The-Nest/SAC-LIFE](https://github.com/Sac-State-Mobile-App-The-Nest/SAC-LIFE)

### Automated PDF Generation and Delivery

*Node.js, Firebase, Docker*

Developed a back-end system for dynamic PDF generation using LaTeX, integrated with Firebase Functions for automated storage and email delivery

*GitHub:* [bit.ly/3QL1rmw](https://github.com/nickLewisCSUS/XARGS)

### Custom Command Line Utility (myxargs)

*C, Linux, Bash*

Developed a Unix-like 'xargs' tool that supports batch execution ('-n'), placeholders ('-I'), and command preview ('-t'). Enhanced automation and secure argument handling.

*GitHub:* [github.com/nickLewisCSUS/XARGS](https://github.com/nickLewisCSUS/XARGS)

## Experience

### Software Development Projects

*Jan 2023 – Present*

- Built full-stack applications with authentication, API integrations, and cloud services.
- Designed and implemented automated end-to-end tests, improving application stability and reducing manual testing efforts.
- Managed version control and CI/CD pipelines to improve development efficiency.

### Barista — Target, Lincoln, CA

*Aug 2021 – Present*

- Strengthened communication and multitasking in a high-paced environment.
- Consistently met customer service standards, handling 50+ transactions per shift.

## Education

### California State University, Sacramento

*Jan 2023 – Present*

*Bachelor of Science in Computer Science*

*Relevant Coursework:* Operating Systems, Software Engineering, Networking, Database Management, Formal Languages

### Sierra College *Aug 2020 – Dec 2022*

A.S. in Computer Science and Natural Science

### Technical Skills

**Programming:** Java, Python, JavaScript, TypeScript, SQL, C

**Web and Cloud:** React Native, Node.js, Firebase, Google Cloud, Docker, REST APIs

**Automation and DevOps:** Playwright, CI/CD, Git, Linux, Bash Scripting

**Development:** Agile, SCRUM, Test-Driven Development (TDD)

**Soft Skills:** Leadership, Project Management, Problem-Solving, Communication