

Nicholas Lewis

Lincoln, CA 95648 — (916) 666-0510

LinkedIn — Portfolio — GitHub

Objective

Computer Science undergraduate with a strong foundation in software development, system architecture, and debugging. Passionate about developing high-performance, scalable software and leveraging parallel computing, cloud infrastructure, and automation. Seeking an internship to contribute to cutting-edge technology through code review, software architecture improvements, and system optimization.

Projects

Cloud-Powered AI Mental Health Chatbot

Hackathon — Fast API, Hugging Face, Python

Developed an AI chatbot for stress management and guided relaxation. Built a FastAPI backend and integrated automated deployment pipelines. Optimized API response times for scalability.

GitHub: github.com/nickLewisCSUS/MentalHealthChatBot

Sac State LIFE Mobile App

Team Lead — React Native, Azure, Node.js

Led development of a cloud-based student app with AI-driven features and event recommendations. Managed API deployments on Azure, implemented CI/CD pipelines, and conducted code reviews for maintainability and performance.

GitHub: github.com/Sac-State-Mobile-App-The-Nest/SAC-LIFE

Automated Cloud PDF Generation and Delivery

Node.js, Firebase, Docker

Developed a cloud-based PDF generation service using LaTeX, integrated with Firebase Functions for serverless processing. Containerized the deployment using Docker for scalability.

GitHub: bit.ly/3QL1rmw

Custom Cloud Command Line Utility (myxargs)

C, Linux, Bash

Developed a Unix-like xargs tool with support for batch execution (-n), placeholders (-I), and command preview (-t). Conducted rigorous debugging and performance optimization.

GitHub: github.com/nickLewisCSUS/XARGS

Experience

Software Development Cloud Engineering Projects

Jan 2023 – Present

- Conducted code reviews to improve software quality, maintainability, and security.
- Designed and implemented automated CI/CD pipelines to improve deployment efficiency.
- Managed containerized applications using Docker, optimized cloud resource allocation.
- Debugged and optimized software for parallel and distributed systems.

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, Parallel Programming (GPUs), Cloud Computing, Software Architecture

Sierra College Aug 2020 – Dec 2022

A.S. in Computer Science and Natural Science

Technical Skills

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

Cloud and DevOps: Google Cloud, Azure, Docker, Firebase

Web and API Development: React Native, Node.js, REST APIs, GraphQL

Software Development: Code Review, Software Architecture, Debugging, CI/CD,

Automation System Optimization: Playwright, Git, Linux, Bash Scripting, Parallel Computing

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

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