

Nicholas Lewis

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Objective

Results-driven Computer Science undergraduate skilled in software development, problem-solving, and team collaboration. Seeking roles in software engineering, agile project management, and system optimization.

Projects

Reimagining the Sac State LIFE Mobile Application

Team Lead — Agile Methodology — In Progress

Leading a team to develop a student-focused app with a dashboard, AI chatbot, calendar, wellness resources, and campus navigation. Collaborating with Dr. Basia D. Ellis and Bobby Reed, CEO of Capital Tech Solutions, to ensure user-centered design.

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

Dynamic PDF Generation, Storage, and Email Delivery with Google Firebase

Developed a Node.js app for PDF generation and automated email delivery using Firebase, LaTeX, and Docker. The pipeline integrates Firestore data retrieval, PDF generation from templates, secure storage in Google Cloud, and email automation.

GitHub: <https://bit.ly/3QL1rmw>

Custom Command Line Argument Processor (myxargs)

Designed a C-based command-line utility inspired by Unix 'xargs', supporting batch execution ('-n'), placeholder substitution ('-I'), command preview ('-t'), and secure argument sanitization for automation.

GitHub: <https://github.com/nickLewisCSUS/XARGS>

Java Cellular Automata Simulation

Developed an interactive Conway's Game of Life simulation in Java, using OOP and OpenGL for optimized graphics rendering and event-driven programming for responsive interaction.

GitHub: <https://bit.ly/3V600RS>

Experience

Barista

Target, Lincoln, CA

August 2021 – Present

Gained customer service, time management, and multitasking skills in a high-paced environment, demonstrating reliability and teamwork.

Education

California State University, Sacramento — January 2023 – Present

Bachelor of Science in Computer Science

Relevant Coursework: Operating Systems, Computer Graphics, Software Engineering, Database Management, Formal Languages, Data Structures, Networking

Sierra College — August 2020 – December 2022

Associate Degrees in Computer Science and Natural Science

Technical Skills

Programming Languages: Java, Python, JavaScript, SQL, C

Technologies: Google Firebase, Google Cloud Platform, Docker, Firebase Functions, LaTeX, Git, Linux

Development Methodologies: Agile, SCRUM, TDD, CI/CD

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