

# Nicholas Lewis

*Software Engineer – Full-Stack & Backend Development — Java, SQL, Node.js*

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## Technical Skills

### Languages/Frameworks:

JavaScript, TypeScript, Python, Java, C, C#, SQL, Node.js, React, React Native, HTML5, CSS3

### Backend/Cloud:

Express.js, REST APIs, Firebase Functions, Azure SQL, Google Cloud, Docker

### Tools & Testing:

Git, GitHub Actions, Azure Pipelines, Jest, Playwright, Webpack, CI/CD

**Practices:** Agile, OOP, TDD, Debugging, Version Control, Code Reviews, Network Protocols (UDP)

## Projects & Experience

### Software Engineer / Team Lead – Sac State LIFE Mobile App

*Jan 2024 – May 2025*

**Tech:** React Native, Node.js, Azure, SQL

Led a 9-person team to build a mobile wellness app for Sacramento State, integrating secure authentication, personalized services, and wellness tracking. Designed REST APIs, Firebase authentication, CI/CD pipelines, and optimized SQL queries for scalable performance. **GitHub:** [SAC-LIFE Repository](#)

### Core Developer – BigBoom Multiplayer 3D Tank Game

*Aug 2023 – Dec 2023*

**Tech:** Java, OpenGL, UDP, JBullet

Implemented a custom UDP networking layer, server-authoritative multiplayer architecture, AI behavior trees, and physics-driven combat. Enhanced real-time synchronization of player and object states. **GitHub:** [BigBoom Repository](#)

### Developer – Cloud PDF Generation Pipeline

*Jun 2023 – Aug 2023*

**Tech:** Node.js, Docker, Firebase

Automated PDF creation with a containerized LaTeX pipeline in Firebase Functions, enabling scalable backend workflows for on-demand document generation. **GitHub:** [Cloud PDF Generation Repository](#)

### Developer – Voice Vision AI Accessibility Tool

*AI Hackathon, Mar 2023*

**Tech:** Python, YOLOv5

Developed a real-time object detection tool for visually impaired users, using YOLOv5 and speech synthesis to convert camera input into spoken feedback. **GitHub:** [Voice Vision Repository](#)

### Target (Starbucks Barista)

*Aug 2021 – Aug 2025*

Strengthened customer service, time management, and multitasking abilities in a high-volume retail environment.

## Education

### California State University, Sacramento

*May 2025*

B.S. in Computer Science

### Sierra College

*Dec 2022*

A.S. in Computer Science and Natural Science

## Relevant Coursework

Data Structures & Algorithms, Software Engineering, Operating Systems, Database Systems, Parallel Programming with GPU, Computer Networks