

# Jacob Nef

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## EDUCATION

### Brigham Young University

*Computer Science Major, Emphasis in Software Engineering*

Graduating Apr 2027  
Provo, UT

*Minor in Creative Writing*

- GPA: **3.87 while working 20hr/week** concurrently
- **President** of the BYU Developers Club with over 200 members, collaborated with companies like **Adobe**
- 2x Dean's List recipient (Top 5% of class), **full tuition scholarship** received
- Courses taken: Data Structures, Discrete Structures, Computer Systems, Advanced Software Construction and Web Programming

## SKILLS

**Languages:** Java, Python, C++, JavaScript, Typescript | **Frameworks:** React, Angular | **Other:** mySQL, Git

## EXPERIENCE

### BYU College of Family, Home, and Social Sciences

Sep 2024-Present  
Provo, UT

*Web Developer (Full-Stack)*

- Developed full-stack web applications using **Angular and Node.js**, building responsive UIs and robust backend services with modern tooling and clean API integration
- Wrote **100+ Java unit tests** to validate business-critical backend methods and protect against edge cases
- Spearheaded development of a research conference platform supporting **500+ concurrent users**, including secure form submissions and automated award distribution
- Facilitated **10+ client meetings**, to translate functional specs into actionable technical deliverables
- Collaborated in and **led teams of 2-6 programmers** to deliver 6+ projects on time and with minimal bugs

## PROJECTS

### Speed-Cola Web Game

*see Github*

- Developed and deployed a full-stack reaction speed game with **React, WebSockets, MongoDB, and Vite**, featuring real-time gameplay, a live leaderboard, and secure user authentication
- **Implemented content filtering**, access control, and session-based security; incorporated feedback from 10+ testers to refine UI/UX and ensure performance across devices

### Chess Application

- Built a full-stack chess app from scratch using **Java, mySQL, and WebSockets** complete with a CLI and REST API, supporting real-time multiplayer, user auth, and dynamic game state management
- Designed and implemented scalable data access layers using custom DAOs and SQL to support authentication, game logic, and user services across **7+ endpoints**

## VOLUNTEER EXPERIENCE

### The Church of Jesus Christ of Latter-Day Saints

Jun 2022-Jun 2024

*Full-time Representative*

Navajo Nation, AZ

- **Led teams** of 6-8 volunteers, conducting weekly training sessions and tracking performance through progress reports which led to **measurable improvements** in effectiveness
- Served underdeveloped communities through **humanitarian aid** like wood chopping, gardening, and livestock care

## ACHIEVEMENTS/INTERESTS

- Received an **Honorable Mention** at an AI-agent building hackathon hosted by **Redo and JustBuild**
- Designed website with Wordpress to host short stories and grow audience as an author