

Jacob Nef

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EDUCATION

Brigham Young University

Computer Science Major, Emphasis in Software Engineering
Minor in Creative Writing

Graduating Apr 2027
Provo, UT

- 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

Web Developer (Full-Stack)

Sep 2024-Present
Provo, UT

- 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

Full-time Representative

Jun 2022-Jun 2024
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