

Nathaniel Judd

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Website

<https://njuddportfolio.com>

Profile

I am a full-stack software development engineer with a Bachelor's of Science in Computer Science and 3 years of experience in the field. I have written web applications in React and Angular, server applications in TypeScript and database work in PostgreSQL and Oracle Database. I've authored CI/CD workflows in Azure and Terraform, deploying resources to AWS that are still running in production, benefiting customers and reducing integration costs. I am a certified AWS Cloud Practitioner and have production experience in Lambda, S3, RDS, CloudWatch, CloudFront, ElastiCache, API Gateway and more.

Professional Experience

Contract Software Developer, Church of Jesus Christ of Latter-day Saints, Remote

Apr 2024 — Jan 2026

Worked as a contract full-stack developer for church technology operations, delivering and maintaining a new web and android application for volunteer church missionaries. Integrated chatbot features with OpenAI, and performed all CI/CD tasks for the team, creating a streamlined and consistent deployment process.

- Created a robust in-app notification system allowing users to receive reminders about upcoming calendar events (React.js, TypeScript, Express.js, Azure DevOps Pipelines, Amazon EventBridge, AWS Lambda).
- Upgraded continuous delivery pipelines to run only when relevant code was merged, decreasing pipeline runs by 70%.
- Authored an Azure pipeline to build, bump version and bundle a native mobile app, send it to testers and sign for production (Azure DevOps Pipelines, Capacitor, Rbsbuild, Firebase).
- Created database migration pipelines across 2 applications, making database changes and schema synchronization seamless across non-production and production lanes.
- Created new features such as a feedback page supporting file uploads, a rating system for AI-generated support messages (OpenAI API), and more (React.js, TypeScript, Express.js, PostgreSQL).

Senior Student Developer, Provo MTC

Nov 2023 — Apr 2024

Promoted to a senior position after passing a special development test that involved creating an issue tracker web application from scratch to match given criteria in one sprint. Worked on migrating and maintaining existing codebases and fixing bugs across the entire stack. Reviewed other's code for style, consistency and best practice, mentored other student developers and played an active role in deployment operations.

- Created a jira-like issue tracker as a senior dev test, supporting login, drag-and-drop, comments, and attachments in 2 weeks (Angular, Tailwind CSS, TypeScript, Nest.js, MySQL).
- Aided an employee management application in its' migration to UTC, creating frontend and backend code to better interface with our PL/SQL database (Angular, TypeScript).
- Migrated several proprietary Angular components to be more modern and maintainable.
- Took over regular deployment to production, syncing changes several times a week via Github Actions.

Student Developer, Provo MTC, Provo, UT

Oct 2022 — Nov 2023

Completed new features and maintained an employee web and android application. Full stack development from database to deployment, handling feature creation and bug fixes on every portion of our stack.

- Stood up a new interface for leaders to track weekly volunteer missionary well-being, mental health and overall success (AngularJS, Typescript, NestJS, PL/SQL).
- Upgraded a volunteer alert page for use at training centers with an interface for editing and multi-language support (AngularJS, TypeScript, NestJS, PL/SQL, AWS).

Education

Brigham Young University, Provo, UT

Computer Science (BS), Sept 2020 — Apr 2024

Emphasis in Software Engineering

Capstone Project

Worked in a 4-person team using SCRUM led by a product manager to add animations to an Adobe graph library (React Spectrum Charts). Leveraged React.js and Typescript to create JSON specs for Vega visualization. Created test cases and wrote unit tests with high levels of coverage. Product manager was a developer at Adobe and our work was integrated into their library after 1 semester.

Brigham Young University

Spanish Minor, Sept 2020 — Apr 2024

Languages

Spanish

Licenses & Certifications

AWS Cloud Practitioner, Amazon Web Services

Jan 2026 — Jan 2029