

Nathan Redd

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SUMMARY

Full-Stack Web Developer and Aspiring Software Engineer studying Bioinformatics and Computer Science at Brigham Young University. Strong entrepreneurial spirit with a desire to learn new things and apply them everyday.

EXPERIENCE

Full-Stack Developer

BYU Law School

January 2023 - Present, Provo, UT

- Implemented new features on enterprise level applications using React.js and Node Express.
- Designed API calls to retrieve information from DynamoDB and display in user friendly interface.
- Coordinated with team of developers to plan and develop new authentication protocol and role hierarchy.
- Maintained codebase and code style throughout the life cycle of applications.

Research Assistant

Brigham Young University

January 2022 - September 2022, Provo, UT

- Reduced the time to develop a model of a protein using X-ray crystallography by over 50%.
- Reduced the cost to develop a model of a protein by nearly 90%.
- Refined raw data to develop a clear model of human proteins for future drug and scientific research.
- Trained other assistants on proper lab techniques and procedures to give the best probability of success in experiments.

Residential Manager

Northwest Charities

December 2019 - Present, Draper, UT

- Planned and coordinated doctor and psychologist appointments for each resident.
- Organized weekly staff meetings to improve communication between staff and management.
- Managed medication documentation and distribution to ensure each resident received the proper medication at correct intervals.
- Resolved conflict between residents and staff through open communication and de-escalation methods.

EDUCATION

Bachelor of Science in Bioinformatics

Minor in Computer Science • Brigham Young University • Provo, UT • 2024 • 3.78

SKILLS

Front End: HTML, CSS, React.js

Back End: Node.js, Mongo/Dynamo DB, REST API

Languages: C++, Python, Java, JavaScript

AWS

Fluent in Khmer Language

COURSEWORK

Web Programming

Brigham Young University • 2022 • React.js, Node.js

Developed websites on my own and as part of a group using HTML, CSS, Javascript, React.js, Node.js, Mongo DB, AWS, and Github for collaboration.

Data Structures and Algorithms

Brigham Young University • 2022 • C++

Implemented fundamental data structures and algorithms of Computer Science including recursion, sorting and searching, lists, stacks, queues, trees, hashing, and object-oriented data abstraction.

PROJECTS

Teaching Professional English

Cambodia Job Foundation • March 2021 - September 2021

- Volunteered to teach English to a group of professionals employed at the Zion International School of Phnom Penh.
- Developed lesson plans for English vocabulary and grammar that apply in daily professional life.
- Presented at conferences in 3 locations around Cambodia about how to set and achieve proper goals.

CERTIFICATIONS

Eagle Scout Award

Boy Scouts of America • 2015

Organized and led a group of 20+ individuals in completing a service project for local Elementary schools.