

Nathan Simpson

>_ SOFTWARE DEVELOPER

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Summary

Backend-focused software developer with a B.S. in Computer Science, specializing in designing and implementing server-side applications using Node.js, Spring Boot, and MySQL. Experienced in RESTful API development, database management, and leveraging Python for data analysis and machine learning.

Education

California State University, Monterey Bay

August 2022 - August 2024

Bachelor of Science (B.S.), Computer Science; concentration in Software Engineering

Seaside, CA

Experience

Web Developer

Sep 2023 - Dec 2023

Compassion Without Borders

Santa Rosa, CA

- Collaborated with charity staff to understand content needs and translated them into clear, accessible web pages.
- Rebuilt existing web pages using clean, semantic HTML and CSS to improve maintainability and layout consistency.

Electroplating Technician

Jan 2022 - Aug 2022

Keysight Technologies

Santa Rosa, CA

- Generated comprehensive documentation of findings to streamline issue resolution.
- Excelled in meeting tight deadlines in fast-paced environments, consistently delivering high-quality results.

Projects

🔗 Digital Retail Storefront

Aug 2023

- Engineered site infrastructure using Node.js and Express.js.
- Integrated multiple APIs for dynamic data population, reducing manual data entry time by 50%.
- Implemented front-end development with JavaScript, EJS, CSS, and MySQL, resulting in a responsive and user-friendly interface.

🔗 Godot 2D Rogue-Lite Game

Jan 2024 - Aug 2024

- Spearheaded solo development of an Auto-Battler Rogue-Lite game using the Godot 4 engine.
- Architected core framework with Object-Oriented Programming principles, enabling seamless feature integration and reducing development time by 30%.
- Optimized game performance, enhancing user experience and reducing frame latency by 25%.

🔗 Lightweight Python HTTP Server

Oct 2024

- Developed a lightweight HTTP server in Python, supporting basic HTTP methods (GET, POST) and concurrent connections using threading.
- Implemented features for reading and interpreting HTTP headers, echoing request bodies, and managing file read/write operations via the server.

🔗 School Management System Interface

Jan 2024

- Developed a school management system tested with 100+ dummy users, including students, instructors, and admins, using Agile BDD techniques and WT authentication for secure, token-based access.
- Built a REST API with Spring Boot and a responsive front end with React, streamlining enrollment, course management, and grade tracking processes.

Programming Languages

C++

Java

JavaScript

Python

CSS

HTML

MySQL

GDScript

C#

TypeScript

EJS

Skills / Technologies

React

Node.js

HTTP

RESTful APIs

Postman

Git

GitHub

Unix/Linux

Android

Windows

Test Driven Development

Agile Development

Parallel Programming

Machine Learning

AWS

S3

Route 53

CloudFront

MongoDB

Express

Flask

Jupyter

Tailwind CSS

JSON

JWT

Docker

JUnit

Scrum