Nathan Roe

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OBJECTIVE

I am a full stack developer seeking a full-time entry level position that utilizes my strong understanding of C#, Python, or MERN (MongoDb, Express, ReactJS, NodeJS). I welcome complex challenges and love working with teams of people to accomplish a collective goal. My passion is to create or support business critical software.

TECHNICAL SKILLS

Languages: JavaScript, Python, C#, SQL, HTML5, CSS **Frameworks/Libraries:** Django, Flask, ASP.NET, LINQ, Entity Framework Core, NodeJS, ReactJS, Express, JQuery, AJAX, API, DOM, RESTful API, Mongoose, Selenium, Bootstrap **Databases:** mySQL, noSQL, MongoDB **Version Control Systems:** GitHub, Postman, GitBash, AWS, Scrum

PROJECTS

Face Detection Authentication
Sep. 2020

Login authentication through face detection using: Python, Django, OpenCV, AWS

- Implemented OpenCV, a computer vision and machine learning library, to allow real time object detection, specified for faces, allowing users to use their own cameras to compare with saved data on an Amazon EC2 server.
- Leveraged Django within an MVC pattern to allow users to store a profile image on registration and to compare live video footage to that image on login.
- Deployed authentication program through Amazon EC2.

LinkedCS
Jan. 2021

Single page social networking application borrowing concepts from LinkedIn and Instagram using: C#, Entity Framework Core, ASP.NET Core, MySQL, AJAX, Razor

- Reused concepts from a Graph data structure I developed to create functions within EF Core that shows users 1st, 2nd, or 3rd degree removed connections and displays specific information based off of those results on the UI.
- Implemented Entity Framework Core and C# OOP concepts within an MVC framework to create many-to-many, one-to-one, one-to-many, and self-joining relationships that allow users to create posts, comments, preferences, stories, and connections with other users.
- Leveraged AJAX to create a SPA (single page application) that created a modern front-end and user experience.

Chat App
Nov. 2020

A communication app that allows users to access different rooms and send messages in real time using: Socket.io, MongoDB, Mongoose, Express, JavaScript

- Used Mongoose and MongoDB to allow users to create rooms that users could communicate through and would allow their message data to persist after leaving the site.
- Leveraged Socket.io to create real time communication between users and the server.
- Implemented React giving a user the ability to create an account that would allow them access to specific rooms if they were invited by another user.

EDUCATION

Coding Dojo | *Full-Stack Developer Certificate* | Boise, Idaho   Sep. 2020 - Nov. 2020
- *Immersive Full-Stack Training Program in Python, C# and MERN*
- *Received highest honors in MERN and C#*   Jan. 2020 - May 2020

Boise State University | Boise, Idaho
- *Relevant Coursework: Communications, Microeconomics*   Aug. 2019 - May 2020

College of Southern Idaho | Boise, Idaho
- *Relevant Coursework: Psychology*   Aug. 2019 - May 2020

College of Western Idaho | Meridian, Idaho
- *Relevant Coursework: Pre-Calculus*