Tyler Towery

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Technical Skills

Front End | JavaScript, TypeScript, React, HTML5, CSS3, SASS, Redux
Back End | Next.js, Node.js, Express, MongoDB, MySQL, PostgreSQL, Firebase, Restful API
Testing/Deployment | Jest, Mocha, Chai, AWS: EC2, Test Driven Development (TDD)
Developer Tools | Git, npm, Docker, Webpack, Babel, Scrum, Agile Methodology

Software Application Development Experience

Lead Engineer | **Hades Tracker** | Link | React, Next.js, Firebase, Redux   03/2024-present
A site to track progress in Hades' upgrade and boon collections
- Designed a multi-page application with Firebase Authentication
- Developed a feature that shows users their completion status for specific tasks within the game Hades, helping them track their progress
- Implemented a feature that allowed users to toggle the status of the boons or upgrades that they have selected in previous runs

Lead Engineer | **Volleyball Rotations** | Link | React, Next.js, Docker   12/2023-01/2024
A streaming service that streams concerts live to viewers with live-chat capabilities
- Created a dynamic form that adjusts based on the number of players selected
- Developed a grid-based component to display and edit volleyball player positions and names on the court, with a 'rotate' button to show each rotation visually.

Lead Engineer | **Total Party Wipeboard** | Link | React, Next.js, Firebase, Redux   04/2023-09/2023
A campaign tracking site for Dungeons & Dragons parties
- Designed Next.js multi-page application with Firebase Authentication
- Implemented a Firestore database to store user created parties and session notes with information about the characters/players that are in the campaign
- Developed a parties component that displays all of the user's current parties
- Created a notes component that the user can utilize to keep track of what happened narratively during a session
- Built custom dice rolling component that allows users to select the number and type of dice, such as d4, d6, d20, etc., for their rolls

Fullstack Engineer | **Music Streaming** | Link | React, Node.js, Firebase, Socket.io   03/2023
A streaming service that streams concerts live to viewers with live-chat capabilities
- Collaborated with stakeholders to ensure streaming websites met owners' branding guidelines
- Built live chat feature using Socket.io, enhancing concert performers' engagement with fans
- Delegated styling tasks to team members as UI Owner

Backend Engineer | **Server and DB** | Link |Express, PostgreSQL, AWS EC2   02/2023
A scalable back-end server that provides routing and data to a clothing e-commerce storefront
- Optimized server response times by 83% through the implementation of two EC2 micro instances behind an Nginx load balancer
- Built a highly performant API for a large clothing retail web portal, resulting in improved user experience and increased sales
- Streamlined database management with efficient CSV parsing and schema refinement, leading to 90% faster query response times

Professional Experience

Teacher | Gateway Community Charters   2018-2022

- Analyze individual students progress and provide meaningful, constructive feedback and adaptations to curriculum
- Collaborate with a group of ten grade-level teachers
- Identifying challenges for students and finding creative solutions for individual students needs
- Adapting teaching methods to accommodate different learning styles and students needs
- Develop engaging and relatable lessons that break down concepts into more meaningful content
- Foster a loving atmosphere that embraced a respectful approach to learning

Teacher | Arcohe School District   2016-2017

- Analyze individual students progress and provide meaningful, constructive feedback and adaptations to curriculum
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Education

Hack Reactor | Certificate in Software Engineering   2022-2023

CalState Teach | California Elementary Teaching Credential   2016-2017

University of California, Irvine | BS Psychology   2010-2014

Hobbies & Interests

I enjoy playing guitar, playing beach and indoor volleyball, playing video games (The Legend of Zelda, FF7, and Pokemon being some of my favorites), hiking, and spending time outside with my family.