Tyler Pierson
Software Engineer
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SKILLS

Frontend: JavaScript | HTML | CSS | Shopify | Wordpress | Sass | React | Liquid | Axios | Angular
Backend: Node.js | MongoDB | Mongoose | Express.js | Python | SQL | AWS | C++ | MySQL | Django
Project Management: Git | GitHub | JIRA | Trello | Visual Studio Code
Testing | Debugging: Jest | PostMan | SuperTest

- SCRUM Leadership
- Data Analysis
- Agile Methodologies

- Project Management
- Training and Development
- API Development

- AI Integration
- Testing | Debugging
- Code Review

PERSONAL BRAND STATEMENT

As a versatile software engineer, I'm driven by a passion for problem-solving and innovation, constantly seeking new challenges to push creative boundaries. Leveraging my background in education and leadership, I excel in fostering collaborative teams to achieve common goals. With expertise in JavaScript, React, Node.js, and SQL, I'm committed to using my skills to create user-friendly applications that streamline processes and empower colleagues. My journey began with a desire to enhance data collection for what was then my place of work, and I remain dedicated to continually improving my workplace through innovative solutions in software development

PROJECTS

Goose Dev Hub | Full-Stack React Application
- Developed a robust backend using Node.js and Express.js, providing a secure and efficient server-side environment.
- Employed MongoDB as the database management system to store user profiles, project details, and employment-related information.
- Integrated React.js for frontend development, creating a dynamic and interactive user interface for seamless navigation and engagement.
- Implemented modern development practices and frameworks to create a scalable and user-friendly social media platform tailored for web developers. (i would like to see bullets for things like your api calls, unit tests, etc)
- Example API calls used:
  - Create User: POST /api/users
  - Get User: GET /api/users/:id
  - Update User: PUT /api/users/:id
  - Delete User: DELETE /api/users/:id

Campus Population API | Backend API Development
- Created a School Campus API using Node.js, Express, Mongoose, and MongoDB to manage staff, teachers, students, and assignments within a school environment.
- Implemented a many-to-many relationship model to accurately represent the complex interactions between staff members, teachers, students, and assignments.
- Designed RESTful endpoints to handle CRUD (Create, Read, Update, Delete) operations for managing staff, teachers, students, assignments, and their relationships. In the development of the School Campus API, one of the key CRUD operations I implemented was the "Create" operation, specifically for adding new students to the school database.
- Utilized MongoDB and Mongoose to efficiently store and retrieve data related to staff, teachers, students,

assignments, and their associations.

[Django Todo List](#) | **Full-Stack Application**
- Developed a Todo List application with Django as the backend and React as the frontend.
- Deployed the backend using AWS EC2 and the frontend using AWS S3, both delivered through CloudFront.
- Designed RESTful APIs with Django REST Framework to handle task management operations.
- Integrated React components for dynamic and responsive user interactions.
- Implemented AWS S3 for secure and scalable frontend storage.
- Conducted integration testing to ensure seamless interaction between backend and frontend.

[Push Project Management](#) | **Project Management Application**
- Created a project management application for developers and development teams using React.
- Deployed using AWS EC2 for the backend and CloudFront for distribution.
- Designed a comprehensive project management system including task assignments, progress tracking, and collaboration features.
- Used React Router for dynamic routing and smooth navigation.
- Conducted performance optimization to ensure a fast and responsive user experience.

PROFESSIONAL EXPERIENCE | WORK HISTORY

General Assembly **September 2023 – March 2024**
Software Engineer, Immersive Fellow
- Worked independently and collaboratively and offered web development services on a project-by-project basis. Conducted knowledge-sharing sessions to disseminate expertise and promote a collaborative and informed team environment.
- Completed 500+ hours of expert-led instruction in Cloud development, DevOps, and UX Engineering and hands-on learning of frontend and backend fundamentals and the industry's most in-demand technologies.
- Collaborated with cross-functional teams to design and implement features, emphasizing both front-end and back-end development.
- Utilized technologies such as HTML5, CSS, and JavaScript to create responsive and user-friendly web applications.
- Conducted thorough debugging and troubleshooting sessions, resolving software defects and ensuring a smooth user experience.

Denton Independent School District | Aubrey, TX **July 2020 – Present**
Interdisciplinary Teacher
- Implemented a self-made project management and data tracking system that focused on student response to intervention and increased overall grade level scores by 15% in the course of one school year.

Keller Williams | Frisco, TX **July 2018 – July 2019**
Real Estate Agent

University of North Texas | Denton, TX **August 2016 – May 2020**
Student

United States Marine Corps | Kaneohe Bay, HI **May 2011 – December 2015**
Infantry Team Leader, Corporal (E-4) | Honorably Discharged

EDUCATION

General Assembly **September 2023 – March 2024**
Software Engineering Immersive Certification
Full Stack Software Development
Valedictorian

Texas A&M University | College Station, TX   **August 2021 – May 2023**
Master of Education
Educational Administration and Human Development
GPA 4.0

University of North Texas | Denton, TX   **August 2016 – May 2020**
Bachelor of Science
Interdisciplinary Studies
GPA 3.72