

Aaron Bishop

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<https://aaronpbishop.github.io>

<https://github.com/AaronPBishop>

SKILLS AND TECHNOLOGIES

JavaScript, TypeScript, React, Redux, Node.js, Express.js, Python, Machine Learning, FastAPI, Flask, SQLAlchemy, SQL, PostgreSQL, MongoDB, HTML, CSS, Tailwind, Docker, Git, OpenAI API, VSCode, Ubuntu, Postman, Figma

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer

Mutual, June 2023 - Current

- Spearheaded the design and development of the company website, employing React TypeScript components and Redux Toolkit for efficient frontend state-management, resulting in an intuitive and highly-responsive user interface.
- Successfully connected and integrated backend OpenAI API endpoint responses into custom frontend chatbot components.
- Implemented robust CI/CD pipeline solutions, facilitating seamless deployment and scalability of applications across multiple environments, resulting in a 50% reduction in deployment time and improved resource utilization.
- Leveraged Docker to successfully containerize and manage a diverse range of backend services and frontend applications.
- Tested and improved machine learning configurations, resulting in improved agent responses and functionality.
- Developed new backend API endpoints and AI response generators following the Agile methodology.
- Efficiently organized and refactored large-scale codebases in a fast-paced startup environment, refining overall code quality.

Perishables Specialist

H-E-B, April 2017 - March 2023

- Awarded 'Bob Brandt Customer Service Award' for outstanding customer service.

NOTABLE PROJECTS

ThesaRush

<https://thesarush.onrender.com> | <https://github.com/AaronPBishop/ThesaRush>

Unique multiplayer word game with various complex game-play mechanics and engaging skill-based rewards.

(React, Redux, Flask, SQLAlchemy, ES6 JavaScript, HTML5, CSS3)

- Utilized advanced matrix operations, including recursive generation of random starting boards, manipulation of input selection based on player tile selection, and instant splicing of cleared tiles, resulting in a 60% increase in overall gameplay speed and a highly engaging player experience.
- Deployed a 'challenge' feature which enables users to send and receive challenges from other players within an array of leagues, with customizable time limits and difficulty levels, allowing players to compete and compare results.
- Built a highly effective 'hint' generating feature that utilizes an elegant algorithm to quickly identify valid 8-9 letter words within the player's board, resulting in a significant 75% improvement in algorithmic word-finding speed.
- Developed a sophisticated skill-based reward system and distinct tiles with special properties that incentivize players to submit 2-3x longer words and accrue more points in-game.
- Designed an advanced tile-generating system that utilizes queue techniques to strategically determine next letters that should be dropped, optimal column placement, and appropriate properties each tile should inherit based on previous outputs, improving playability and game efficiency by 80%.

Buzz

<https://buzz-vxv2.onrender.com> | <https://github.com/AaronPBishop/Buzz>

Full-stack Slack inspired asynchronous messaging application

(React, Redux, Flask, SQLAlchemy, HTML5, CSS3)

- Coordinated a team of three developers and leveraged expertise in project management, code reviews, and cross-functional communication to ensure timely completion of project milestones and successful deployment of the application.
- Leveraged global state listening hooks in order to conditionally dispatch timed backend requests at intervals, creating highly-responsive, asynchronous messaging functionality between users.
- Employed data-driven design principles to build a state-management system that loads messages from the organization or channel currently being viewed, resulting in improved application performance and faster load times of 50%.

EDUCATION

App Academy - Software Engineering Immersive: 48 Week Program - Graduation Date: March 2023

3% admission-rate - 90% deferral rate - Graduated top of class with 0 deferrals on weekly assessments

Pair-programmed daily and constructed several full-stack applications using a diverse variety of programming technologies.

Lone Star College System - Associate of Arts: Business Administration - Graduation Date: January 2022

Graduated Summa Cum Laude (3.9 GPA)

ACCOMPLISHMENTS

- Certified Eagle Scout