

Aaron Bishop

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<https://github.com/AaronPBishop>

SKILLS AND TECHNOLOGIES

JavaScript, React, Redux, Node.js, Express.js, Python, Flask, SQLAlchemy, SQL, PostgreSQL, HTML, CSS, Git, VSCode, Ubuntu, Postman

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%.

Bishop-BnB

<https://bishop-bnb.onrender.com> | <https://github.com/AaronPBishop/Bishop-BnB>

Airbnb inspired application that enables homeowners to easily list and rent out their properties to travelers.

(React, Redux, Express, Sequelize, HTML5, CSS3)

- Formulated a robust search feature that enables users to accurately query for properties based on location and optimized front-end state management system to query results 50% faster.
- Created a custom booking component which conditionally builds reservations based on previously booked dates, utilizing advanced conditional logic in order to streamline the booking process.
- Incorporated modern UI/UX design principles and seamlessly integrated RESTful backend API routes and efficient queries in order to enhance application performance by over 60%.

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)

PROFESSIONAL EXPERIENCE

Perishables Specialist

H-E-B, April 2017 - Present

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

ACCOMPLISHMENTS

- Certified Eagle Scout
- National Leadership Training Accreditation