

Justin Bowman

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Summary

Recent Computer Science graduate with experience in full-stack development, data analytics, and applied research supporting statewide health initiatives. Skilled in React, SQL, Python, and AWS, with a strong background in problem-solving, cross-functional collaboration, and building data-driven solutions.

Skills

JavaScript, HTML, CSS, Python, C/C++, GitHub, Git, Software Development, REST, SDLC, APIs, DevOps, Agile, Microsoft Excel, SAS, SQL, MySQL, R, Front-End Development, Back-End Development, React.js, AWS, Spanish, Power BI

Projects

Reddit Client Web Application | React, Redux, REST API

- Built a fully functional Reddit client integrating the Reddit JSON API to fetch posts, comments, and subreddit data.
- Implemented global state management using Redux (slices, async thunks, loading states, error handling).
- Developed search, filtering, and dynamic routing for interactive post viewing.
- Demonstrated skills in API integration, modern frontend architecture, and responsive UI design.

PizzaDB Relational Database System | MySQL, SQL

- Designed complete ERD (Crow's Foot) and normalized database structure for pizzas, orders, toppings, discounts, and customers.
- Implemented triggers, views (ToppingPopularity, ProfitByPizza), and stored procedures to improve data integrity and reporting.
- Wrote complex multi-table queries to analyze product performance and operational efficiency.

Advanced Search Web Application | HTML, CSS, JavaScript, Custom API

- Created a two-tier search system with both standard and advanced queries using a custom-built RESTful API.
- Added filtering by title, author, and publication year with adjustable result limits.
- Strengthened API request handling, DOM manipulation, and usability design.

Experience

Clemson Office of Research and Organizational Development | Pickens, South Carolina

Research Assistant | 05/2024 - 08/2025

- Automated portions of research workflows using Excel to improve efficiency and consistency in data analysis.
- Worked directly with management to refine and develop a literature review for SCDHHS on intergenerational interactions.
- Fostered effective communication among team members to ensure alignment in project objectives for research.
- Assisted with data collection efforts for South Carolina's Department of Health and Human Services (SCDHHS) to contribute to vital health initiatives.

Reddi Lab | Clemson, South Carolina

Outreach Co-Coordinator | 05/2022 - 06/2024

- Coordinated volunteer projects to enhance community engagement and support the local community.
- Assumed social media management responsibilities, demonstrating adaptability and swift learning ability despite initial lack of experience.
- Hosted symposiums for companies and organizations to promote knowledge exchange and networking opportunities.

Reddi Lab | Clemson, South Carolina

Lab/Biorepository Technician | 08/2021 - 06/2024

- Helped provide rapid testing for the Upstate South Carolina community by enhancing access to essential health services.
- Developed and examined code to help streamline protocol to improve the accuracy and efficiency of testing.

- Supported PCR sample processing contributing to thousands of tests during community health efforts.
- Improved testing efficiency through protocol automation and workflow improvements.

Progressive Management | Spartanburg, South Carolina

Medication Technician/Caregiver | 02/2020 - 04/2022

- Administered medications to residents, ensuring adherence to prescribed treatment plans and regulatory standards.
- Provided compassionate and tailored care to residents with dementia/Alzheimer's to enhance residents' overall well-being.
- Delivered comprehensive training to new employees to develop a knowledgeable and skilled team.
- Assumed a leadership position during emergency medical situations by leveraging quick decision-making skills to ensure the safety of residents and staff while also delivering appropriate interventions.

Adult Learning Center | Spartanburg, South Carolina

Office Advisor | 08/2019 - 05/2020

- Assisted individuals in registering for GED testing, guiding them through the process for successful enrollment.
- Supported non-English speaking individuals in navigating the registration process for signing up for ESL classes.
- Promoted the benefits of obtaining a GED in low-income areas by highlighting opportunities and pathways for career advancement.

Education

Clemson University | Clemson, South Carolina

Bachelor's Degree in Computer Science | 08/2025

Minor in Mathematics

Languages

English - Fluent, Spanish - Advanced