Caleb Jackson

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Summary

Software Engineer with foundational experience, graduating in May 2025. Successfully designed and coded web applications, achieving FDA compliance and 100% test coverage with Tap and Cypress. Developed REST APIs and evolved ReactJS UI components, enhancing application efficacy in a team-centric, agile environment. Seeks to leverage expertise in full stack development to advance the execution of innovative cloud-based solutions.

Education

Newberg, OR **George Fox University** **Aug 2021 - May 2025**
BS in Computer Science *GPA: 3.45*
Minor: Information Systems

Work Experience

Software Engineer Intern **TZ Medical Inc. - Tualatin, OR** **May 2024 – Present**
- Designed and implemented an application for mechanical engineers to input equipment test data in real time, integrating with existing software and databases to ensure immediate recording and maintain compliance with FDA, ISO, and CE Mark standards.
- Delivered 100% code coverage and high-quality releases through rigorous testing, agile best practices, and meticulous documentation to keep the system always ready for auditing.
- Built and maintained REST APIs with Node.js using Fastify and Sequelize ORM, enabling seamless data exchange, enhancing scalability, and optimizing database interactions.
- Optimized a critical API route, improving performance by 5.2x when accessing the frontend site by caching data and reducing redundant calculations, significantly enhancing efficiency.
- Developed highly responsive ReactJS UI components in JavaScript, enabling seamless re-rendering and improving application performance and user experience.
- Enhanced product capabilities with cloud architecture integrations using GCP and modern databases such as MySQL and PostgreSQL.
- Collaborated with cross-functional teams in Scrum meetings to align on goals, advocate agile practices, and track progress using Jira.

AI/ML Research Assistant **George Fox University - Newberg, OR** **May - Aug 2023**
- Refined and experimented with machine learning models to predict vineyard crop yield in pounds, achieving over 90% accuracy and contributing to improved forecasting.

Data Entry Clerk **Homemasters - Tigard, OR** **Dec 2017 - May 2024**
- Entered and processed over 150+ customer work orders, contracts, and receipts per week, maintaining an up-to-date and error-free database.
- Automated a daily data processing task that previously took most of the day, turning weeks of tedious work into a fast, efficient process, freeing time for more impactful tasks.
- Collaborated with team members to resolve discrepancies in customer records.
- Streamlined data entry workflows by identifying inefficiencies, increasing productivity without compromising data integrity.
- Supported cross departmental needs by ensuring customer data is readily available and aligned with company standards, contributing to timely project completion.

Projects

Caleb Jackson - Dev Portfolio
https://github.com/CJackson21/PortfolioSite
- Built a responsive React-based portfolio website to showcase professional projects and achievements.
- Integrated React Router for seamless navigation and deployed the site on Netlify with CI/CD pipelines.
- Highlighted technical knowledge by ensuring performance optimizations and modern UX/UI principles.

Discord Spotify Bot

https://github.com/CJackson21/Discord-Music-Bot
- Developed a 24/7 Discord music bot using Discord.js, integrating Spotify and YouTube APIs for seamless playback, queue management, and user controls.

Bruin Buddy: Personalized Event Platform
- Designed and built *Bruin Buddy*, a college event platform with secure OAuth authentication, enabling students to create, discover, and manage events. Developed with React and Node.js for a responsive, scalable experience, delivering a fully functional product in a competitive coding event.

Game Recommendation Bot (Ongoing)
- Building an AI-driven Discord bot in Rust to track user activity, fetch patch notes, recommend games, and notify users of relevant deals.
- Leveraging a Large Language Model (LLM) for game recommendations and integrating with Steam APIs for real-time updates, with plans to refine the model selection.
- Deploying the bot for 24/7 availability, with efficient memory management and concurrency for optimal performance.

Technical Skills

- Languages: Java, Python, Rust, Go, C/C++, JavaScript/HTML/CSS, TypeScript, SQL, Bash
- Frameworks and Libraries: ReactJS, Node.js, Fastify, Sequelize, Pandas
- Tools: Git, Linux, Docker, Jira, JWT, Bitbucket, Cypress, Nock