

Caleb Jackson

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Summary

Software Engineer graduating in May 2025, experienced in full stack development. Designed FDA compliant web apps with 100% test coverage. Built REST APIs, optimized React UI components, and enhanced performance in an agile team. Seeking to advance cloud-based solutions.

Education

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

Work Experience

Software Engineer Intern	TZ Medical Inc. - Tualatin, OR	May 2024 – Present
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- Developed a real time data entry application for mechanical engineers to record equipment test data, ensuring compliance with FDA, ISO, and CE Mark standards.
- Achieved 100% code coverage with rigorous testing and documentation, ensuring audit readiness.
- Built and optimized REST APIs using Node.js, Fastify, and Sequelize ORM, enhancing scalability and database efficiency.
- Optimized a critical API endpoint, improving performance by 5.2x through caching and reducing redundant calculations.
- Developed responsive React UI components for seamless re-rendering and improved user experience.
- Integrated GCP and modern databases (MySQL, PostgreSQL) to enhance product capabilities.

AI/ML Research Assistant	George Fox University - Newberg, OR	May - Aug 2023
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- Developed machine learning models predicting vineyard crop yield with 90%+ accuracy, improving forecasting.

Data Entry Clerk	Homemasters - Tigard, OR	Dec 2017 - May 2024
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- Processed 150+ work orders weekly, maintaining accurate records.
- Automated a manual task, cutting processing time from days to minutes.
- Collaborated with team members to resolve discrepancies in customer records.
- Resolved record discrepancies and streamlined workflows to boost productivity.

Projects

Dev Portfolio - <https://github.com/CJackson21/PortfolioSite>

- Built a React-based portfolio site with React Router and deployed via Netlify CI/CD.

Discord Spotify Bot - <https://github.com/CJackson21/Discord-Music-Bot>

- Developed a 24/7 music bot using Discord.js with Spotify and YouTube API integration.

Bruin Buddy: Personalized Event Platform

- Built an OAuth-secured college event platform using React and Node.js for the frontend and Flask for the backend.

Game Recommendation Bot (Ongoing)

- Developing an AI-powered **Rust Discord bot** for tracking activity, game recommendations, and patch notes.
- Using an **LLM** and Steam API for real-time updates and optimized 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