

# Caleb Jackson

+1-503-899-8454 | calebjackson2002@gmail.com

## Summary

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Software Engineer with foundational experience, graduating in May 2025. Successfully designed and coded web applications, achieving FDA compliance and 100% test coverage. 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.

## Skills

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Frontend, Backend, Java, Python, C++, JavaScript, TypeScript, React, NodeJS, Git, SQL, MongoDB, PostgreSQL, Linux, Docker, AWS, HTML5, CSS, Material-UI, Pandas, NumPy, Matplotlib, Scala, Express.js, Webpack, Vite, Bash, Shell Scripting, Agile, Scrum, CI/CD, GitHub Actions, Bitbucket, Sequelize, Fastify, full-stack web applications, apis, Cloud architectures, Node.js, Modern databases, Agile methodologies

## Work Experience

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### TZ Medical Inc.

Software Engineer

Tualatin, OR

Sep 2024 – Present

Software Engineer Intern

May 2024 – Aug 2024

- Designed and implemented an application for mechanical engineers to input test data in real time, ensuring immediate recording and eliminating end of day delays or risks of data loss.
- Delivered 100% code coverage and high quality releases via rigorous testing and agile best practices.
- Built and maintained REST APIs with Node.js, enabling seamless data exchange and enhancing scalability.
- Developed optimized ReactJS UI components in JavaScript, improving application performance and usability.
- Enhanced product capabilities with cloud architecture integrations using GCP and modern databases such as MySQL and PostgreSQL.
- Ensured compliance with FDA, ISO, and CE Mark standards through meticulous software documentation and testing.
- Engaged with cross functional teams and stakeholders, collaborating in Scrum meetings to align on project goals and advocate for agile methodologies.

### George Fox University (VineTech Research Project)

Computer Science Research Associate

Newberg, OR

May 2023 - Aug 2023

- Helped in further research of vineyard crop yield via machine learning algorithms.
- Collected further data needed to appropriately train a Machine Learning model.
- Went onsite to get photographs of all rows and bays of the vineyard via rover.
- Refined and experimented with the Machine Learning model to predict grape yield in pounds, achieving over 90% accuracy and contributing to improved vineyard yield forecasting.

### Homemasters

Data Entry Clerk

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.
- 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.

## Education

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George Fox University

- GPA: 3.45
- Achievements: Gained a strong foundation in computer science, Explored Data Science and Data Analytics, Completed projects in Machine Learning and Database Management
- Courses: Algorithms and Data Structures, Operating Systems, Software Engineering, Network Security, Ethical Hacking, Digital Forensics

## Projects

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### Portfolio Website

Dec 2024

- 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 Music Bot

Jan 2024

- Developed a music bot for Discord servers, allowing users to play, pause, skip, and manage music queues.
- Utilized Discord.js and integrated with Spotify and YouTube APIs to enhance user experience.
- Deployed the bot on a server for 24/7 availability.

### Bruin Buddy: Personalized Event Platform

Mar 2023

- Designed a dynamic event creation and discovery platform featuring secure user authentication.
- Leveraged React and Node.js to deliver responsive, scalable functionality across frontend and backend.
- Delivered a fully functional product in a competitive coding event by implementing Agile principles.

### RestWell: Sleep Habit Optimization App

Apr 2022

- Built an interactive web app offering personalized sleep improvement suggestions based on user inputs.
- Learned and applied the fundamentals of HTML5, CSS, and JavaScript to create an engaging UX under a 30 hour time constraint.