

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. 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

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

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.
- 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

George Fox University

Bachelor's, Computer Science, Cybersecurity

May 2025

- 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

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.