

Caleb Jackson

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Summary

Software Engineer with 1 year of experience in technical internships and part-time roles, focusing on full-stack development, data analysis, and software quality assurance. Successfully implemented machine learning models for vineyard crop yield prediction and developed FDA-compliant software with 100% test coverage for medical applications.

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

Work Experience

TZ Medical Inc.

May 2024 - Aug. 2024 (Intern), Sep. 2024 - Present (Part-Time Employee)

Full Stack Developer

Tualatin, OR

- Design, code, and debug web applications that improve user experience and system functionality, delivering new features or enhancements.
- Analyze software requirements to evaluate feasibility within time constraints, ensuring projects are completed on schedule while maintaining a high success rate in delivering functional solutions.
- Build and maintain REST APIs to support seamless communication between frontend and backend systems, enabling efficient data exchange and scalability.
- Used ReactJS to develop UI components for web applications, improving performance and usability.
- Support, maintain, and document software functionality, resolving issues or bugs across 4 separate projects to ensure system stability and optimal performance.
- Develop and implement test plans for software quality assurance, including validation testing, to achieve 100% code coverage to ensure all functionalities are thoroughly validated and meet quality standards before deployment.
- Document test reports and ensure compliance with FDA design requirements, ISO, and CE Mark standards.
- Collaborate within a team environment, participating in 2 cross-functional Scrum meetings per month, as well as daily standup, to align on project goals and ensure seamless integration of software solutions.

George Fox University (VineTech Research Project)

May 2023 – Aug. 2023

Computer Science Research Associate

Newberg, OR

- Help in further research of vineyard crop yield via machine learning algorithms.
- Collect further data needed to appropriately train a ML model.
- Go onsite to get photographs of all rows and bays of the vineyard via rover.
- Attempt to get accurate prediction of grape yield in pounds using a trained model.

Homemasters

Dec. 2017 – May 2024

Data Entry Clerk

Tigard, OR

- Entering and processing over 150+ customer work orders, contracts, and receipts per week, maintaining an

up-to-date and error-free database.

- Collaborating with team members to resolve discrepancies in customer records.
- Streamlining data entry workflows by identifying inefficiencies, increasing productivity without compromising data integrity.
- Supporting cross-departmental needs by ensuring customer data is readily available and aligned with company standards, contributing to timely project completion.

Education

George Fox University

Pursuing a Bachelor's in Computer Science and Cybersecurity

Graduating May, 2025

Newberg, OR

- GPA: 3.45 (as of December 2024)
- Gained a strong foundation in computer science with coursework in Algorithms and Data Structures, Operating Systems, and Software Engineering.
- Specialized in cybersecurity through courses such as Network Security, Ethical Hacking, and Digital Forensics, focusing on practical applications and real-world scenarios.
- Explored Data Science and Data Analytics beyond the core curriculum, applying machine learning and statistical analysis techniques in Python.
- Completed projects in Machine Learning and Database Management, showcasing problem-solving and teamwork skills.

Projects

Code Jam - April 2022

- Collaborated with a team of 4 to design and build a website that provided personalized sleeping habit suggestions based on user input from a short quiz.
- Completed the project within a 30-hour time frame, showcasing adaptability and quick learning.
- Learned and applied the fundamentals of HTML5, CSS, and JavaScript to create an interactive and visually appealing user experience under tight constraints.

Code Jam - March 2023

- Developed a dynamic website for event finding and creation, featuring user login/signup functionality with secure password authentication.
- Designed and implemented separate pages for finding, creating, and managing events, improving user experience and navigation.
- Leveraged prior knowledge and collaboration with teammates to deliver a fully functional product in a competitive coding environment.

React Website - April 2024

- Built a responsive and interactive portfolio website using React to showcase professional projects, skills, and achievements.
- Implemented routing with React Router to create a seamless navigation experience across multiple sections of the site.
- Deployed the website using Netlify, ensuring continuous integration and deployment for real-time updates.