

# Caleb Jackson

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## Summary

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Full stack Software Engineer with expertise in high performance systems, cloud architecture, and data driven development. Delivered FDA compliant applications with 100% test coverage, optimized critical APIs by 520%, and automated workflows saving 500+ annual hours. Passionate about building scalable solutions that bridge technical and business needs.

## Technical Skills

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- 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

## Education

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<b>Newberg, OR</b>	<b>George Fox University</b>	<b>Aug 2021 - May 2025</b>
BS in Computer Science (Minor: Information Systems)		
GPA: 3.5		
Certificate: Business Analytics		

## Work Experience

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<b>Software Engineer Intern</b>	<b>TZ Medical Inc. - Tualatin, OR</b>	<b>May 2024 – May 2025</b>
<ul style="list-style-type: none"><li>• Engineered a real-time FDA/ISO-compliant data entry app using React and Node.js, achieving 100% test coverage via TAP for backend services and Cypress for E2E testing.</li><li>• Designed high-performance REST APIs using Fastify/Sequelize, improving a critical endpoint's speed by 520% through query optimization and reducing database load by 70% via Redis caching implementation.</li><li>• Architected reusable React components with lazy loading, implementing dynamic imports to reduce initial bundle size by 30% and cutting load time by 40%, while maintaining 100% test coverage.</li><li>• Integrated GCP and modern databases (MySQL, PostgreSQL) to enhance product capabilities.</li></ul>		

<b>AI/ML Research Assistant</b>	<b>George Fox University - Newberg, OR</b>	<b>May - Aug 2023</b>
<ul style="list-style-type: none"><li>• Developed a machine learning model to predict vineyard crop yield with over 90% accuracy, improving forecasting.</li></ul>		

<b>Data Entry Clerk</b>	<b>Homemasters - Tigard, OR</b>	<b>Dec 2016 - May 2024</b>
<ul style="list-style-type: none"><li>• Automated manual workflows, slashing processing time from 3 days to 10 minutes and saving 50+ hours/month.</li><li>• Resolved 300+ record discrepancies, improving data accuracy by 95%.</li></ul>		

## Projects

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**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>

- Created a 24/7 music bot with 99% uptime, adopted by 50+ users.

**Bruin Buddy: Personalized Event Platform**

- Built a college event app with React, Node.js, Flask, and OAuth; tested by 40+ students.

**Game Recommendation Bot**

- 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.