

Jackson Vondemkamp

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EDUCATION

University of Colorado, Boulder

Aug 2023 – May 2027

Bachelor of Science in Computer Science, Minor in Engineering Entrepreneurship

Boulder, CO

Relevant Coursework | Software Dev Methods and Tools, Intro to AI, Machine Learning

Algorithms, Data Structures, Database Systems, Computer Systems

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, C/C++, SQL

Frameworks: React / React Native, Node.js / Express, Next.js, Tailwind CSS, Handlebars, Bootstrap

Cloud/DevOps: AWS (S3/CloudFront), Docker, Git/GitHub, GitHub Actions (CI/CD), Vercel/Netlify

Data/DB: PostgreSQL, Supabase, MySQL

WORK EXPERIENCE

Business Assistant (Technology Focus)

May 2025 – Sep 2025

Red Light Therapy Studio

Stanwood, WA

- Built a self-service booking and check-in system that expanded availability from 10 hr/day → 24/7 with only ~2 hr/day staffed coverage and cut no-shows 12% → 5% via automated reminders.
- Reworked the booking pipeline (QR onboarding, reminder cadence) and formalized a no-show policy, which correlated with +120% growth in active clients during my tenure and shifted usage toward self-service.

PROJECTS

Festivalify | *React Native, Supabase, Google Cloud Vision, OpenAI API, Spotify API*

May 2025 – Present

- Piloted a mobile app that produces personalized festival schedules by resolving artist conflicts from scanned lineups
- Introduced scheduling, notifications, and navigation features, releasing to early users in a beta launch phase.

YumBoard | *AWS S3, Node.js, PostgreSQL, Docker, Handlebars, Bootstrap*

Feb 2025 – May 2025

- Built a full-stack recipe sharing platform with 4-person team emphasizing agile methodology.
- Leveraged technologies such as AWS S3, implementing scalable asset storage that reduced loading times by 40% when compared to local storage systems.

Personal Portfolio | *React, Next.js, Netlify, JavaScript, Tailwind CSS*

Dec 2024 – Jan 2025

- Designed and developed a responsive personal portfolio showcasing my resume, projects, and technical skills with an interactive user experience.
- Optimized website performance by 20% using image and video compression, without any quality drawbacks.

Memory Allocator | *C, Git*

Oct 2024 – Nov 2024

- Engineered a memory allocator for C programs using a red-black tree-based dynamic storage allocation technique, significantly improving allocation and deallocation speed with $O(\log n)$ time complexity.
- Achieved a 30x performance improvement in memory management, minimizing fragmentation and optimizing allocation times for large datasets.

CERTIFICATES

Google UX Design Professional Certificate – ETA Dec 2025

Google Product Management: Professional Certificate – ETA Jan 2026

Databricks Generative AI Fundamentals

LEADERSHIP & COMMUNITY DEVELOPMENT

Executive Board

Dec 2024 – Present

Alpha Tau Omega

Boulder, CO

- Co-led with organizing a 24-hour Veterans Day philanthropy event, successfully raising \$3,425 and benefiting Salute Colorado in support of local veterans.