Jacob Gifford *Software Engineer*

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PROFESSIONAL EXPERIENCE

Software Engineer   04/2025 – Present │ Seattle, Washingotn
Visa Inc.

Risk and Identity Solutions
- Designed and implemented vendor-level georouting that reduced global latency by ~50%, cutting US latency from ~500ms to ~200ms while supporting scale from ~15 RPM to ~2000 RPM.
- Built dashboards and analytics that identified performance bottlenecks and client usage patterns, directly enabling an additional ~30% latency reduction across all regions.
- Independently designed and built a production simulator that enabled realistic testing and automation, significantly improving release safety and consistency.
- Consistently delivered at 130%+ of expected output, acting as primary escalation point for time-critical issues across teams and time zones.

Volunteer Full Stack Engineer   04/2024 – 04/2025 │ Remote, USA
CodePDX ☐

React.js, Material UI, Javascript, git

Main Site
- Designed, and developed WCAG and a11y compliant themes using MUI, and React, greatly enhancing user experience and user journey.
- Created and edited dozens of assets for the webpage dark-mode themes with Photoshop and Figma.

PASS Project
- Implemented and tested controlled forms, pre-validating user data for decentralized data stores.
- Built features allowing the sharing and editing of contacts and user profiles.
- Debugged issues and implemented effective solutions and tests with React Testing Library and Vitest.

Full Stack Engineer   11/2023 – 03/2024 │ Remote, USA
Freelance Consultant
- Developed and maintained - hands-on and fullstack - features in Javascript, and Typescript across all platforms and devices.
- Provided clients with publishing options, bundled, deployed and maintained their applications.

OPEN SOURCE CONTRIBUTIONS

The Odin Project ☐
- Curriculum: Overhauled the CSS Foundations sections, reorganizing and enhancing lessons.
- Taught learners fundamental concepts, providing code and design reviews.

PROJECTS

Gradient Fitness ☐

React, Typescript, TailwindCSS, PostgreSQL, Chart.js, Express.js
- Collaborated with fitness professionals to determine and design useful analytics for strength training.
- Created robust charts using public datasets and medical research, allowing professionals and hobbyists to gain a deeper and more accurate understanding of their physical strength.
- Utilized PostgreSQL with Prisma to quickly analyze and aggregate large datasets for statistical analysis.

EDUCATION

Purdue University   08/2016 – 05/2020 │ West Lafayette, USA
B.S. Chemistry (conc. Biochemistry)

SKILLS

Languages: Typescript, Javascript, Java, Python, Golang, HTML, CSS │ **Frameworks:** React, Next, Express, Node,

Springboot, Electron │ **Tools:** PostgreSQL, MongoDB, Prisma, Docker, Socket.io, Jest, Vitest, Git, Postman, Liquibase │

Technology: Photoshop, Lightroom, Blender, Premiere Pro