

Zachary Springer

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EDUCATION

Portland State University

Sep 2019 - Aug 2024

B.S. Computer Science

Portland, OR

Discrete Mathematics, Data Structures, Algorithms, Databases, Data Engineering, Web Development, Natural Language Processing, Operating Systems, Programming Language Design

SKILLS

Languages TypeScript, JavaScript, SQL, HTML, CSS, Python, Go, Java

Technologies Node.js, Express.js, Postgres, SQLite, React, Next.js, TailwindCSS

Miscellaneous Git, Docker, GitHub, GitHub Actions, GCP, AWS

EXPERIENCE

Robinhood

Oct 2024 - Present

QA Contractor, Full-time

Portland, OR

- Developed comprehensive regression test suites for the expansion of Robinhood internationally, providing a successful launch to over 150,000 United Kingdom users.
- Collaborated directly with engineers and product managers to streamline the QA process of development, using work management tools such as Jira, TestRail, and Coda.
- Diagnosed and aided in fixing over 500 front-end and back-end bugs, documenting which API endpoints to hit, Python scripts to execute, and ensuring reproducibility for engineers.

Arya Jewelry

Jan 2025 - Jun 2025

Freelance Software Engineer

Portland, OR

- Engineered a full-stack jewelry e-commerce platform utilizing Next.js and TypeScript, enabling server-side rendering for instantaneous first page loading, improved search engine optimization, and end-to-end type safety.
- Implemented a hand rolled stock management system, leveraging cloud-based SQLite, DrizzleORM, and Cron jobs, ensuring data integrity through all user interactions.
- Developed beautiful, production grade React components for product browsing, sorting, searching, pagination, cart management, item reservations, and checkout.
- Programmed a simple, intuitive admin dashboard for viewing and managing product stock and site metrics, using Next.js, TypeScript, Shadcn/ui, and Tanstack Form.

Ecobadlandz

Mar 2024 - Aug 2024

Software Engineering Intern

Portland, OR

- Designed and implemented two AirBnB-like mapping applications, providing users with enhanced access to electric vehicle charging stations.
- Spearheaded backend development, designing and implementing REST API endpoints with Java, Spring Boot, JPA/Hibernate, and AWS RDS MySQL to support data retrieval, validation, and integration across multiple applications.
- Developed production grade frontend component, including dynamic maps, interactive markers, in-app navigation handoffs, and advanced filtering/search, using React, React Native, Redux, and Google Maps API.

NOTABLE PROJECTS

Vanishtype

May 2025 - July 2025

Full Stack Software Engineer

Portland, OR

- Built a full-stack, minimalistic typing test application with user authentication, live typing feedback, global leaderboards, visualized statistics, a vanishing UI while typing, and an animated cursor that moves as you type.
- Designed and wrote custom React hooks to consolidate state updates, ensuring a separation of concerns.
- Developed a secure and efficient data access layer with Next.js, Postgres, and DrizzleORM, centralizing server-side logic and preventing client-side data leaks.

TriMet Data Pipeline and Visualization

Jan 2024 - May 2024

Full Stack Software Engineer

Portland, OR

- Engineered an automated ETL pipeline over Google Cloud Pub/Sub with Python (Pandas) and Postgres to gather, process, and visualize Portland TriMet breadcrumb bus stop data.
- Programmed scripts to validate, clean, integrate, and transform data from two sources into a unified dataset stored in a PostgreSQL database.
- Visualized the dataset by running queries into a GeoJSON file to be visualized on a Python HTTP server using Mapbox GL.
- Automated the pipeline with GCP CE Linux virtual machines through system scheduling and Cron jobs.