

# Ryan Green

Senior Backend Engineer

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**Location**

Seattle, WA

**GitHub**

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## SUMMARY

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Senior Backend Engineer with 8+ years designing distributed systems, event-driven microservices, and high-throughput data pipelines in Python and FastAPI. Proven track record of modernizing legacy infrastructure, leading engineering teams, and delivering measurable performance and cost improvements at scale.

## EXPERIENCE

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### Get Covered

*Senior Backend Engineer*

Remote

06/2024 – Present

- Architected and deployed an in-house OpenStreetMap server on EC2, replacing a costly third-party Maps API and saving up to \$80K/year; presented the solution directly to the CTO and independently drove the full migration.
- Designed and built an event-driven data deduplication pipeline using FastAPI, RabbitMQ, Redis, Celery, and PostgreSQL to process daily client imports of 11M+ records — cutting processing time from ~4 hours to under 30 minutes by routing only new or updated records to the primary API.
- Developed a FastAPI address normalization service processing all address requests in under 100ms, leveraging an in-memory cache to eliminate redundant lookups at scale.
- Created internal Python microservices using Pydantic and FastAPI to offload workloads from the legacy Rails monolith, improving system modularity and reducing infrastructure coupling.

### Blueboard Inc.

*Senior Backend Engineer*

Remote

01/2023 – 10/2023

- Led a team of 6 engineers to deliver multiple REST APIs; drove the system architecture migration from WSGI to FastAPI, improving API throughput by 60%, and oversaw a codebase upgrade from Python 2.7 to 3.11 for long-term security and maintainability.
- Deployed a self-hosted Nominatim and OpenStreetMap service on EC2 to power all geolocation features — delivering Google Maps-quality accuracy at \$500/month versus an estimated \$10K/month for equivalent Google Maps API usage, with response times of 125ms uncached and 10–15ms with caching.
- Architected the migration from a legacy Rails monolith to FastAPI microservices; introduced GitHub Actions and Githooks to establish a modern CI/CD workflow and improve team delivery velocity.
- Optimized 10 MariaDB databases using SQLAlchemy and Pydantic, achieving a 30% improvement in query performance; built Postman collections for automated API regression testing.

### StartEngine

*Backend Java Developer (Contract)*

Remote

06/2022 – 08/2022

- Migrated a microservice from Ruby on Rails to Spring Boot in under 2 months, improving system performance and scalability.
- Led database migration from MongoDB to PostgreSQL, preserving data integrity and enabling more efficient relational querying across the platform.

## Fair.com

Software Engineer – Backend & Automation

Santa Monica, CA

11/2018 – 04/2022

- Served as QA team lead for a 4-person team embedded with a 7-engineer dev squad, overseeing all frontend and API test coverage across Fair's customer-facing platform within a 150-person engineering org.
- Designed and built a test automation platform of 1,500+ tests covering Fair's frontend and two internal tooling systems, originally in Ruby with Capybara and Selenium, later migrating the full suite to Python with Playwright to align with the backend codebase.
- Contributed to backend development on the primary customer-facing Flask API and internal FastAPI service, building and maintaining GraphQL endpoints backed by Snowflake for aggregation — delivering fast, seamless car-shopping data to the frontend with minimal latency.
- Mentored new engineers to full autonomous productivity within 6 weeks through structured onboarding and hands-on pairing.

## Spokeo

Software QA Engineer

Pasadena, CA

02/2017 – 09/2018

- Developed and maintained automated test suites in Ruby with Capybara and Selenium covering Spokeo's customer-facing frontend and API, within a QA team of 13 engineers.
- Built a cross-browser Chrome and Firefox developer extension that identified whether a given page was served from cache or live backend, and surfaced which service and team owned it — enabling engineers to file bug tickets directly with the correct team and eliminating a systemic misfiling problem that had previously caused a 75% bug misrouting rate.

## InnovaSystems International, LLC

Software QA Engineer

San Diego, CA

08/2016 – 12/2016

- Designed and developed 300 automated security and reliability tests in C# for a US Department of Defense digital transformation initiative, helping migrate mission-critical operational records from paper-based processes to a secure software system.

## SKILLS

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### Core Expertise

Python · FastAPI · Distributed Systems · Event-Driven Architecture · Microservices · REST APIs

### Frameworks

FastAPI · Django · Flask · Pydantic · Pandas · Ruby on Rails · Spring Boot

### Messaging & Cache

RabbitMQ · Redis · Celery

### Databases

PostgreSQL · MySQL · MariaDB · MongoDB · SQLAlchemy · Alembic · GraphQL

### Infrastructure

AWS (EC2, S3) · Docker · Jenkins · Datadog · New Relic

### Testing

Pytest · Postman · Swagger · Playwright · Selenium · Capybara

### Other Languages

Ruby · Java · C#

### Productivity

GitHub · Jira · Confluence

## EDUCATION

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### California State University, Monterey Bay

Bachelor of Science in Computer Science – Software Engineering

Bachelor of Science in Computer Science – Video Game Development

08/2011 – 05/2016