

Ryan Green

Sr. Backend Engineer

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Experience

Get Covered

Remote

Backend Engineer

06/2024 - Present

- Presented and implemented a solution to the CTO, transitioning the company from costly Smarty Maps API to an in-house OpenStreetMap server, saving up to \$80k/yr by designing the architecture and setting up EC2 instances independently.
- Developed a FastAPI application to handle all address requests and normalize address strings in under 100ms per request, utilizing an in-memory cache to optimize performance.
- Created internal tools as a solo Python developer using Pydantic and FastAPI, offloading workloads from the legacy Rails infrastructure and building separate services for data processing to improve efficiency.
- Maintained and updated legacy Rails code while developing new features and contributing to the company's transition away from the legacy monolith to a more scalable architecture.

Blueboard Inc.

Remote

Backend Python Developer

01/2023 - 10/2023

- Led a team of 6 engineers to deliver multiple REST APIs, driving the migration from WSGI to FastAPI and improving performance by 60%, while ensuring seamless code upgrades from Python 2.7 to 3.11 for enhanced security and sustainability.
- Engineered the implementation of AWS services to host and manage a Nominatim geolocation server, optimizing location-based features and improving system scalability.
- Drove the transition from a legacy Rails app to FastAPI microservices, improving system architecture and streamlining workflows with GitHub Actions and Githooks for CI/CD, resulting in increased development efficiency.
- Optimized 10 MariaDB databases with SQLAlchemy and Pydantic, improving query performance by 30%, and developed Postman collections for automated API testing, ensuring system reliability.

StartEngine

Remote

Backend Java Developer (contract)

06/2022 - 08/2022

- Authored and reviewed comprehensive software and system documentation for all legacy applications, fostering clear communication and understanding.
- Migrated a microservice from Ruby on Rails to Spring Boot in 2 months, enhancing system performance and scalability.
- Conducted seamless migration of database tables from MongoDB to Postgres, ensuring data integrity and improved querying capabilities.

Fair.com

Santa Monica, CA

SDET

11/2018 - 04/2022

- Mentored new engineers, contributing to a collaborative and skill-enhancing work environment ensuring they were comfortable autonomously within 6 weeks.
- Team lead for the development of over 1500+ comprehensive QA automation test for Fair's frontend website and two internal tooling sites.
- Executed a successful migration of tests from Ruby to Python, improving testing efficiency and codebase consistency.

Spokeo

Pasadena, CA

Software QA Engineer

02/2017 - 09/2018

- Developed tooling to support developers during regression testing, enhancing efficiency and accuracy in the development process which resulted in 75% less misfiled bug reports.

InnovaSystems International, LLC

San Diego, CA

Software QA Engineer

08/2016 - 12/2016

- Used C# to design and develop 300 automated tests designed to confirm security and reliability for US Govt. use of company's product.

Skills

Programming: Python • FastAPI • Django • Flask • Pydantic • Pandas • Ruby on Rails

Database: PostgreSQL • GraphQL • MySQL • MariaDB • Alembic • SQLAlchemy • Active Record

Testing: Postman • Pytest • Swagger • Playwright • Selenium • Capybara

Infrastructure: S3 • EC2 • AWS • Docker • Jenkins • Datadog • New Relic

Productivity: Github • Jira • Confluence

Education

California State University, Monterey Bay

Bachelor of Science - Computer Science & Software Engineering

08/2011 - 05/2016