


YURI BOCHAROV

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EXPERIENCE

Web Developer, Freelance

Dec 2019 – present

- Bench-marked and replaced encryption code with a secure C++ alternative on AWS Lambda, achieving an 8-second drop in the 99th percentile and a 30-second decrease in the 99.9th percentile of request processing times.
- Upgraded legacy Rails API from version 3.2 to 6.2, addressing and closing over 50 vulnerabilities, while enhancing test code coverage from 34% to 88% and enabling HTTP/2 and HTTP/3 compatibility.
- Built marketing site using Payload CMS with a Stripe checkout flow and SendGrid email marketing, enabling independent upkeep of the site by the client and serving 2000 daily visitors.
- Evaluated the three distinct microservice architectures for a concurrent chat server through prototyping and bench-marking with Grafana K6. Implemented service capable of sustaining 10K requests per second, 100K concurrent connections with 99.9% availability.
- Converted existing location microservice from a Node JSON+REST API to Go backed gRPC API, reducing request size by 15% and improving 99th percentile latency by 120ms on average.

Front-End Developer, WowAnalyzer

Dec 2021 – June 2022

- Optimized advertisements through target adjustments and data pre-fetching techniques, resulting in a 40% reduction in new user abandonment and elevating the conversion rate from 1% to 8% for the advertising campaign.
- Designed and implemented a TypeScript domain-specific language based on user feedback, tripling user contributions and updating 30+ analytics modules.

Teaching Assistant, University of Maryland

July 2019 – Dec 2021

Served as a teaching assistant for the UMD Algorithms course, collaborating with the course instructor to teach foundational algorithms and data structures.

PROJECTS

MD Resume

May 2023

A resume generator written in Ruby that converts markdown files to HTML and PDF. Provides options for CSS styling and development mode with hot-reloading to preview changes. [Source](#)

YuriBocharov.dev

June 2023

A blog/portfolio site using Jekyll, hosted on Netlify with an optimized build pipeline including image optimization, compression and tree-shaking to reduce bundle size by 80%. [Source](#)

JIT

Dec 2022

Created a fully interoperable Ruby language version of Git with advanced functionalities including rebasing, cherry-picking and stashing. [Source](#)

Private Events

May 2022

An event booking website using Ruby on Rails, accommodating user sign-ups, event creation, and invitations, hosted as a Docker image on AWS EC2. [Source](#)

SKILLS

- Programming Languages: Ruby, TypeScript, JavaScript, Go, Lua, HTML, CSS
- Web Frameworks/ Libraries: Ruby on Rails, React, Jekyll, Hotwire, AplineJS, PostCSS, TailwindCSS
- Other: Git, Docker, Nix, Bash, SQLite, PostgreSQL, and Redis

EDUCATION

University Of Maryland, Bachelors of Computer Science

2018 – 2021

Montgomery College

2016 – 2019