YURI BOCHAROV

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PROFESSIONAL EXPERIENCE

Freelance   **Remote**
Full-Stack Software Developer   *December 2019 - Present*
- 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.
- 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.

Indiana University - Bloomington   **Remote**
Full-Stack Software Developer   *May 2022 - January 2023*
- 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.
- 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.

WowAnalyzer   **Remote**
Front-end Developer   *December 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.

PROJECTS & OUTSIDE EXPERIENCE

Human Essentials
Open Source Contributor   *2023 - Present*
- Modified implementation of core hashing method to improve performance 4 fold in common cases.
- Implemented linting of ERB templates as a Rake task and as part of CI
- Collaborated with stakeholders to scope, redesign and implement changes to presentation of donation information

CASA
Open Source Contributor   *2023 - Present*
- Volunteer management system for nonprofit CASA, which serves foster youth in counties across America.
- Worked with stakeholders to implement full-stack redesign of court case reports including visual redesign, large back-end changes and changes to 44k production records.

yuribocharov.dev
       2020 - Present
- A statically generated blog/portfolio site using Jekyll, hosted on Netlify
- Implemented extensive image optimization for efficient formats (webp, jpg, avif), sizing (using source sets) and compression (gzip, brotoli) to reduce image size by 80%.

Smallstep
Open Source Contributor   *2023 - Present*
- wrote a database connector in Golang to enable transactional key-value storage using MongoDB as a database

EDUCATION

University of Maryland - College Park   **February 2019 - January 2021**
Bachelor's, Computer Science

Montgomery College
Associate's, Computer Science

SKILLS

Programming Languages: Ruby, JavaScript, HTML/CSS, Go, TypeScript
Frameworks: Ruby on Rails, React.js, Node.js
Databases: PostgreSQL, MongoDB, SQLite