


# YURI BOCHAROV

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## EXPERIENCE

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### Web Developer, Freelance

Dec 2018 – present

As a freelance web developer I connected with product owners through Upwork, Fiverr and social media. I built responsive, visually appealing and accessibility compliant web and mobile sites primarily using Jekyll, Ruby on Rails, and React.

- **Message Dream:** Ruby on Rails site for a local massage parlor hosted on Heroku. Implemented a checkout flow with Stripe and email messaging with SendGrid.
- **Rails Migration:** upgraded legacy Rails API from version 4.2 to 6.1, designed rigorous tests to ensure behavior remained intact.
- **React Portfolio:** React portfolio site with a custom CMS built with Sanity.io, hosted on Netlify.
- **React Blog:** React blog site with a custom CMS built with Sanity.io, hosted on Netlify.
- **React Ecommerce:** React ecommerce site with a custom CMS built with Sanity.io, hosted on Netlify.
- **Ruby:** Ruby data parsing script for a local business to automate the creation of a Google Sheet from a CSV file.

### Independent Contributor, WowAnalyzer

Dec 2021 – June 2022

WoWAnalyzer is a tool to analyze and improve World of Warcraft raiding performance through various metrics and gameplay suggestions, with custom analysis for each specialization to provide the best possible insights.

- Upgraded portions of the codebase from JavaScript to TypeScript
- Implemented domain-specific language features and built out relevant customer facing modules in React
- Expanded the site's localization capabilities

### Teaching Assistant, University of Maryland

July 2017 – Dec 2019

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

## PROJECTS

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### YuriBocharov.dev

June 2023

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, brotli) to minimize data usage.
- Utilized PostCSS for modern CSS features (nesting, container queries, logical properties) while minimizing CSS served through uncss and CSS minification.

### Nursebook

Jan 2023

A Ruby on Rails application demoing the capabilities of the Hotwire framework to deliver a single page experience without the need for a JavaScript frontend.

- Utilized Turbo Streams to deliver dynamic updates to the client including a live chat, notifications, and a live feed of user activity.
- Utilized Turbo Frames and ViewComponents to decompose pages into smaller components improving maintainability and allowing lazy loading of components.
- Utilized Stimulus to add client-side functionality including dynamic image previews, form validation and other interactive elements.

### JIT

Dec 2022

Created a fully interoperable Ruby language version of Git with advanced functionalities.

- Implemented Git object structure (blobs, trees, commits), refs, and history
- Incorporated advanced features like cherry-picking, rebasing, and stashing for advanced conflict resolution.

### Private Events

May 2022

An event booking website using Ruby on Rails, modeled off Eventbrite, accommodating user sign-ups, event creation, and invitations. [Source](#)

- Utilized HTML, CSS, TailwindCSS, and a combination of AlpineJS and JavaScript for the frontend.
- Ensured high code quality with RSpec unit tests and systems tests using Capybara.
- Containerized the production version using Docker and set up hosting using Amazon EC2 and an RDS PostgreSQL database.

## Rebuilding Rails

Aug 2022

A exploration into Ruby rails through the development of a rake-based framework inspired by Rails 3. [Source](#)

- Implemented Rack as middleware for running controller actions as Rack apps and enabling request routing.
- Configured a SQLite database to support an object-relational model.
- Enabled file-based autoloading for views and controllers. Employed ERB to render Ruby code within views.

## SKILLS

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- Programming Languages: Ruby, JavaScript, TypeScript, C, Bash
- Web Frameworks: Ruby on Rails, React, Eleventy, and Jekyll
- Frontend Styling: HTML, CSS, PostCSS, and TailwindCSS
- Client-Side Functionality: Hotwire, AlpineJS, and StimulusJS
- Databases: SQLite, PostgreSQL, and Redis
- Hosting Platforms: AWS, Heroku, Microsoft Azure, Supabase, Netlify, Render, Google Cloud
- Other: Git, Docker, Nix

## EDUCATION

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University Of Maryland, BA Computer Science

2016 – 2019

Montgomery College

2015 – 2017