

Bart Mach

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PROJECTS

Nomad Bliss [GitHub](#) • [Live](#)

Find the perfect place to work remotely.

- Provides live UI and database updates by querying RESTful API of Ruby on Rails / PostgreSQL backend.
- Generates fluid, seamless user experience with JavaScript-driven React and Redux user interface.
- Dynamically updates custom ratings with jQuery.

CrossTire [GitHub](#) • [Live](#)

Inspired by classic board game Crossfire.

- Driven by custom JavaScript physics engine using axis-aligned boundary box collision detection.
- Incorporates AI opponent with simulated human error to aiming angle, max range, and reaction time.
- Loops using requestAnimationFrame to provide silky smooth graphics and minimize player CPU usage.

auDOMatic [GitHub](#)

Harness the power of the HTML DOM

- Wraps HTML DOM to provide easy to use API for manipulating and querying state of HTML objects.
- Integrates AJAX-like request framework into solution, allowing for remote backend connectivity.

EDUCATION

Case Western Reserve University

May 2010 - May 2013

August 2001 - January 2006

- Master of Business Administration (2013)
- BS Computer Engineering (2006)

App Academy NYC

October 2016 - January 2017

- 1000 hour full stack web development program with < 3% acceptance rate

EXPERIENCE

Software Developer • Affinity Algorithms

Lexington, KY - Remote

November 2013 - May 2016

- Independently developed automated data mining application using Python2, Scrapy and MySQL running in Debian Linux environment on AWS.
- Deployed on Amazon EC2 and RDS, enabling daily collection of over 10,000 data points.

Language Instructor • Maeho Middle School

Daegu, South Korea

August 2014 - August 2015

- Performed English lessons to over 1000 students in high pressure academic environment.

Analyst • Case Western Reserve University

Cleveland, OH

January 2010 - June 2014

- Engineered custom PL/SQL data mining and Crystal Reports solutions on demand to generate highly targeted marketing materials and events.

Systems Analyst • Concurrent

Solon, OH

January 2006 - June 2007

- Programmed and remotely launched over 200 Redhat Linux video on demand intelligence servers, capturing and reporting on video viewing data in every major US and Canada market.
- Developed deployment tracking web application using Ruby on Rails and MySQL to monitor hundreds of installations from a single web page.

SOFTWARE SKILLS

Ruby on Rails • Python • JavaScript • React • Redux •
jQuery • AWS • SQL • git • CSS • HTML • Linux