Elias Mulhall

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mulias.github.io

github.com/mulias

Technical Skills

Proficiency with Typescript, Javascript, Ruby, Elm Languages

Experience with OCaml, Go, Scheme, Java, Python, Clojure, PHP

Frameworks Ruby on Rails, React, React Native, Backbone Marionette, Sinatra

Tools & Platforms Linux, Git, Vim, SQL, RESTful APIs, ŁTFX, HTML/CSS, Heroku, Pivotal Cloud Foundry

Experience _

Software Developer, MojoTech

Providence, RI

Provide software consulting and development services as part of MojoTech's in-house engineering team.

Summer 2016 - Present

- Implement robust 12-factor web applications to address difficult problems across a variety of industries.
- Engage in regular client communication, including daily stand-ups and short, deliverable-focused sprint cycles.
- · Apply both rigorous testing and advanced functional programming techniques to ensure software quality and stability.

Intern Software Developer, eHealth Data Solutions

Yellow Springs, OH

Built and tested web-based analytical applications for the post-acute healthcare industry.

Summer 2014, Summer & Winter 2013

- Used PHP, test driven development with PHPUnit, and acceptance test-driven development with Cucumber and Ruby.
- Updated legacy codebase to follow company best practice Cucumber/Ruby integration testing.

Research Assistant, University of Massachusetts Amherst

Amherst, MA

Researched domain specific languages for declarative control of network routing with Prof. Arjun Guha.

Summer 2015

- Implemented a new compiler algorithm for the NetKAT software driven networking language, utilizing the OpenFlow 3 network standard to produce more compact and flexible compiled network switch instructions.
- Leveraged the OpenFlow 3 compiler to develop high-level language abstractions for configuring load balancing and fault tolerant networks.

MIST Educational Web Environment Independent Study, Grinnell College

Grinnell, IA

Developed a toolset for learning functional programming through art with Prof. Samuel Rebelsky.

Spring 2015

- · Worked in existing Node. is code base for the Mathematical Image Synthesis Toolkit (MIST), a domain specific language and integrated web environment for creating visual art by means of simple function composition.
- · Designed and implemented the MIST web API, in order to meet the interfacing needs of the MIST mobile app development team.

Software Foundations Guided Reading, Grinnell College

Grinnell, IA

Studied formal software verification and programming language theory with Prof. Peter-Michael Osera.

Spring 2016

- Read and discussed Software Foundations by Pierce et al. and worked through exercises using the Cog proof assistant.
- Used Cog to verify Theorems 2.1.1 and 2.1.2 of Peter-Michael Osera's dissertation Programming Synthesis with Types.

Education

Grinnell College Bachelor of Arts in Computer Science, 3.7 Major GPA Grinnell, Iowa

2012 - 2016

· Dean's List, Fall 2015

• PLMW at ICFP Travel Scholarship, Aug. 2015