

Athan Clark

Curriculum Vitae

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Profile

Front and Back-end web developer, software engineer and computer scientist. GNU/Linux and UNIX admin. Result-oriented, well-disciplined and tactical - skilled in complexity management and formal testing. Active research in type safety and proofs. Well-versed multi-paradigm developer, with deep understanding of Functional and Object Oriented design.

Published Projects

- Nested Routes The successor to Sinatra for high-performance web applications written in Haskell. <http://hackage.haskell.org/package/nested-routes>
- FrankenScript Augments JavaScript with strong typing and partial application. <https://github.com/athancClark/frankenscript>
- WebPage A scaffold for Html5/Css3 web applications, much like WordPress' theme system. <http://hackage.haskell.org/package/webpage>
- Markup Generalizes Html based on the style of how it's content is deployed. <http://hackage.haskell.org/package/markup>
- UrlPath Method for writing deployable urls, aiding in the migration of a web application from one host to another. <http://hackage.haskell.org/package/urlpath>
- DAG Pioneered a new api for compile-time directed acyclic graphs, leveraging an advanced form of Type-Level programming to facilitate acyclic safety. <http://hackage.haskell.org/package/dag>
- Pred-Trie Predicative lookup tables. <http://hackage.haskell.org/package/pred-trie>

Programming Languages

- JavaScript Node.js, jQuery, LoDash, AngularJS, React, Backbone, Require.js, Bower, Gulp, Grunt, Jade.
- CSS Sass, Less, Stylus, PostCSS - Object-Oriented CSS.
- PHP Symfony, Laravel, Composer, PEAR, Smarty.
- Haskell Yesod, Nested-Routes, Pandoc, HXT.
- Ruby Ruby on Rails, Sinatra, Haml.

Technical Skills

Development

Administration	Installation & Configuration, Kernel Compilation, Hardware Optimization & Troubleshooting
Tools	Make & Autotools; Gulp, Grunt, Bower, NPM, PEAR, Composer & Cabal; Git, Darcs, Cvs; Vim, Atom
Distributions	Ubuntu/Debian, Red Hat/Fedora, Gentoo, NixOS, Linux From Scratch, FreeBSD

Principals

Assurance	Unit and Automated Testing, Property Establishment, Type Systems - absolute correctness. Isolated Sandboxing, Reproducible Development - Docker, Nix.
Performance	Profiling, Complexity and Asymptotic Analysis. Web Developer Tools.
Availability	Browser-Bug Compensation and Evasion, Backward and Forward Compatibility, and Search Engine Optimization.
Code Clarity	Beautiful Code, Loose Coupling, Design Patterns.

Past Positions

American Financing 11/14 - 1/15	Upgraded their legacy PHP and Ruby codebase to a unified Haskell web application - a mirror image of the previous (with semantic HTML improvements), while compensating for historic urls for proper redirection. Completed in 2 weeks.
Peerless Network 11/13 - 5/14	Developed command-line applications for the Network Operations Center to maximize help-desk throughput.
Kifaru Outdoors 10/13 - 11/13	Emergency web application - an iTunes clone for iPhones, but accessible from the web - to allow remote control of the song playing from the dance floor. Completed in 5 days.

References

Isaac Shapira
Web Development Colleague & Student
☎ (720) 402 - 0211

Tom Smith
Colleague & Peer
☎ (605) 415 - 7837

Robert Glover
Mathematics & Programming Student
☎ (720) 272 - 3378

JayR McMahon
Employer for small Web Application
☎ (720) 447 - 2219