

Athan Clark

Curriculum Vitae

☎ (970) 799 - 9167

✉ athan@deconfigured.com

🌐 <http://deconfigured.com>

Profile

Front-end and Back-end web developer, software engineer, system administrator and computer scientist. Focused, tactical and result-oriented - highly skilled in complexity management, rapid development and formal correctness. Well versed multi-paradigm developer, with deep understanding of Purely Functional and Object Oriented design.

Published Projects

- Nested Routes Sinatra-like library for high-performance web applications in Haskell. <http://hackage.haskell.org/package/nested-routes>
- FrankenScript Augments JavaScript with strong typing and partial application. <https://github.com/athanclark/frankenscript>
- WebPage Scaffold for Html5/Css3 web applications, much like WordPress' theme system. <http://hackage.haskell.org/package/webpage>
- Markup Generalizes Html nodes by what they represent, agnostic from their machinery. <http://hackage.haskell.org/package/markup>
- UrlPath URLs are abstracted to their relative or absolute counterparts, automating the migration of an app. <http://hackage.haskell.org/package/urlpath>
- DAG Compile-time directed acyclic graphs, leveraging advanced Type-Level programming to facilitate acyclic safety. <http://hackage.haskell.org/package/dag>
- Pred-Trie Predicative look-up 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, OOCSS, SMACSS, Foundation, Bootstrap, Semantic UI.
- PHP Symfony, Laravel, Composer, PEAR, Smarty.
- Ruby Ruby on Rails, Sinatra, Haml.
- Haskell Yesod, Scotty, Snap, Nested-Routes, Lens, Pandoc, HXT.

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, FreeBSD

Principals

- Assurance Unit / Automated Testing, Property Establishment, Type Systems for absolute correctness. Isolated Sandboxes, 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 - visually a mirror image of the previous (with semantic improvements to the HTML), while compensating for historic URLs for proper redirection for SEO concerns.
- Peerless Network 11/13 - 5/14 Developed command-line applications for the Network Operations Center to maximize the throughput of their help-desk.
- Kifaru Outdoors 10/13 - 11/13 Emergency web application - an iTunes clone for smart-phones, but accessible from the web - to allow control of the song playing from the dance floor, remotely throughout the building.

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