

Athan Clark

Curriculum Vitæ

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Profile

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

Authored Projects

Nested Routes	Sinatra-style web application library.	nestedroutes.com
λtext	Command-line utility for general purpose templating.	ltext.github.io
Time-Map	Time-indexed map data structure.	github/timemap
Pred-Trie	Look-up tables via predicates.	hackage/pred-trie
FrankenScript	JavaScript with strong typing and partial application.	github/frankenscript
Markup	Generic programming for Html.	hackage/markup
UrlPath	URL data type, specialized for app deployment.	hackage/urlpath
WebPage	Web application scaffold, designed like WordPress.	hackage/webpage
Wai-Session-Alt	Session Middleware for WAI.	github/wai-session-alt

Programming Languages

JavaScript	AngularJS, jQuery, LoDash, Backbone, RequireJS, Bower, Grunt, Jade
CSS	Sass, Less, Bootstrap, Foundation, Semantic UI, Polymer
PHP	Symfony, Laravel, Composer, PEAR, Smarty
Ruby	Ruby on Rails, Sinatra, Haml
Haskell	Yesod, Scotty, Snap, Nested-Routes, Lens, Pandoc, HXT

Technical Skills

Principals

- Assurance Unit and Automated Testing, Property Establishment, Absolute Correctness, Isolation, Reproducible Development - Docker, Nix
- Performance Profiling, Complexity, Asymptotic Analysis, Web Developer Tools
- Availability Browser-Bug Compensation, Backward and Forward Compatibility, Search Engine Optimization
- Code Clarity Beautiful Code, Loose Coupling, Design Patterns

Development

- Administration Compilation, Configuration, Hardware Optimization, Troubleshooting
- Tools Make, Autotools, Gulp, Grunt, Bower, NPM, PEAR, Composer, Cabal, Git
- Distributions Ubuntu/Debian, Red Hat/Fedora, Gentoo, NixOS, FreeBSD

Past Positions

- FP Complete 9/15 - 11/15 Added a generic, yet semantically pure security system for nested-routes; simple authentication-role based declarations, with the capacity to integrate into any existing security system.
- American Financing 11/14 - 1/15 Upgraded legacy PHP and Ruby codebase to a Haskell web application - a mirror image of the previous (with improvements to the HTML), while compensating for historic URLs for SEO.
- Peerless Network 11/13 - 5/14 Developed command-line applications for Network Operations Center to maximize throughput of their help-desk.
- Kifaru Outdoors 10/13 - 11/13 Emergency web application - an iTunes clone for smart-phones, accessible from the wifi - allow control of the song playing remotely throughout the building.

References

Please contact me for references