

Athan Clark

Curriculum Vitæ

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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.

Authored Projects

λtext	Command-line utility for general purpose templating.	ltext.github.io
Nested Routes	Sinatra-style web application library.	hackage/nested-routes
Pred-Trie	Look-up tables via predicates.	hackage/pred-trie
FrankenScript	JavaScript with strong typing and partial application.	github/frankenscript
WebPage	Web application scaffold, designed after WordPress.	hackage/webpage
Markup	Generic programming for Html.	hackage/markup
UrlPath	URL data type, specialized for app deployment.	hackage/urlpath
DAG	A type-safe, directed acyclic graph data structure.	hackage/dag

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

Development

- Administration Installation, 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

- 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

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

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