Athan Clark

Curriculum Vitae

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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.

Published Projects

λtext	Command-line utility for general purpose templating. ltext.github.io
Nested Routes	Sinatra-style web application library. hackage/nested-routes
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	Directed acyclic graph data structure, with compile-time safety. hackage/dag
Pred-Trie	Look-up tables with predicates. hackage/pred-trie

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**

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

Tom Smith
Colleague & Peer
✆ **(605) 415 - 7837**

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