Alexander Kyte

Contact Information

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Objective

I am a Computer Science student with interests in compiler construction, language design, systems programming, security/cryptography, and web development.

Education

Rochester Institute of Technology - Rochester, NY

- Major: B.S. Computer Science
- GPA: 4.0
- Standing: Dean's List, National Society of Collegiate Scholars
- Minor: Applied Mathematics
- Expected graduation: January 2016

Experience

Intelichek - Center Valley, PA — May 2013 - August 2013
Lead Developer — `http://www.intelichek.com/`

Oversaw the bootstrapping of a large consumer Ruby on Rails website and helped hire the team that took over the project when we left. The site has not yet launched.

MacSmith - Portland, ME — November 2010 - March 2011
Database and Networking Aid/Intern — `http://www.themacsmith.com/onlinedata.html`

Assisted in the repair and diagnosis of both consumer and school personal computers and servers.

Technical Skills

Languages
Python, Ruby, Java, C, Golang, x86 Assembly, Lisp, Haskell, Clojure, Coffeescript

Frameworks
Ruby on Rails, Ring, Revel

Operating Systems
Linux - API and Userland, FreeBSD - Userland

Public Code Samples
https://bitbucket.org/Alexanderkyte
https://github.com/Alexanderkyte

Projects

Toy Language
Currently working on a purely functional programming language which leverages the LLVM platform for native code generation. Its primary inspired by Scala, C, and Ruby.

Minimum Viable Window Manager
Wrote a small floating window manager (229 lines of C with comments) for linux/FreeBSD in order to learn the Xorg API and to gain experience designing reliable event-driven interfaces.

ShowMeTheCode
Wrote a naive parser for algebraic expressions with support for integrals and summations through higher-order functions. The script takes mathematical expressions and outputs python functions which evaluate the given expressions. This script formed the basis of later, unfinished projects.

Quoridor
Wrote a small graph-based board game AI in a class setting, which achieved second place in competition with other groups' AIs.

Extracurricular

Computer Science House (CSH) — `http://www.csh.rit.edu/`
A special interest house with a focus on project-based education in the field of computer science and its related sub-fields.