

Nathan HOLLAND

PERSONAL DATA

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WORK EXPERIENCE

<i>Current</i> DEC 2013	Software Developer <i>Granicus</i> Developed internal projects to support legacy software. Spearheaded development on new products. Taught other developers various programming languages, technologies, and techniques. Investigated new technologies for the company and provided analysis. Worked on automated deployment system and tools associated with it. Built build processes for frontend applications.
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PROJECTS

Prometheus	Distributed, automated test running tool <i>Closed source</i> Runs cucumber test suites across machines with different configurations. Gives QA access to livestreams of tests as well as live logs. Analyzes logs from test runs and uses that information to highlight tests that are more likely to fail, prioritizing those first. Technologies: Go, AWS, Azure, Cucumber
Fudd	MySQL binlog deserializer and RabbitMQ publisher <i>MySQL library source: https://github.com/granicus/mysql-binlog-go</i> <i>Other components are closed source</i> Built to solve specific problem with legacy software in which we could not easily replicate model transactions to RabbitMQ. No MySQL binlog deserializer would work for our version of MySQL, so one had to be built from scratch. Tails the binlog live on the database server and takes advantage of concurrency to keep up with the application's high throughput. Technologies: Go, MySQL, RabbitMQ
Zeus	Easily configurable, highly concurrent, extensible service bus DSL <i>Source: https://github.com/nholland94/zeus</i> Designed to make wiring restful service oriented architectures easy. Still maintains a high level of configurability. Written and configured in Elixir, but requires little knowledge of the language to use. Technologies: Elixir, Beam VM, OTP

PROGRAMMING LANGUAGES

HIGHLY PROFICIENT: C, OCaml, Ruby, Go, Javascript, PHP, Java, Lua, Elixir
MODERATELY PROFICIENT: Lisp (specifically Scheme), x86 assembly, Python
MILDLY PROFICIENT: Factor, Ada, Nim, Rust, APL, Haskell

TECHNOLOGIES

WEB DEVELOPMENT: Rails, Phoenix, React.js, Backbone.js, Underscore.js, WebSockets, Socket.io, Apache, HTML, CSS
OTHER TECHNOLOGIES: Linux, SQL, Chef, Makefile, Grunt, Xlib, Wayland, OpenGL

AWARDS AND ACTIVITIES

- 2011 and 2012 "Excellence in Computer Science" - Gill St. Bernard's School
- 2010 Receive a 5 in AP Computer Science
- 2010 Worked with a Computer Science graduate student at Drexel University
Worked on optimizing N-Body simulator by performing calculations in parallel on GPUs
- 2011 - 2012 Designed and participated in a programming independent study during highschool
Included artificial neural networks and DirectX 3D work
- 2008 - 2012 Programmed on First Robotics Competition (FRC) team 2458

INTERESTS AND ACTIVITIES

Programming Languages, Compilers, Kernels, Music Visualization, Virtual Reality, Puzzles, Vulkan