

Luke Champine

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Education

Rensselaer Polytechnic Institute – Troy, NY

BS in Computer & Systems Engineering, 2011 – 2015 (GPA: 3.51)

Recent courses: *Embedded Control*
Computer Architecture, Networks, and Operating Systems
Algorithms and Data Structures
Computer Components and Operations

Experience

Platform Mapping Engineering Intern – Akamai Technologies – Cambridge, MA

May 2013 – August 2013

- Wrote scripts to automate release processes
- Integrated scripts with company's MySQL database
- Automatically generated and sent employee-specific reminder emails

Presales Technical Support Intern – Kronos Incorporated – Chelmsford, MA

June 2012 – August 2012

- Deployed and managed virtual machines used by the presales team
- Took the initiative to automate VM deployment and management
 - Result: faster deployment, fewer errors, and easier maintenance
- Provided technical support to Sales and Pre-Sales Engineers in the field

Skills

GNU/Linux ■ ■ ■ ■ □
C ■ ■ ■ ■ ■
Perl ■ ■ ■ ■ □
Haskell ■ ■ ■ □ □

Other skills: JavaScript, Git, SQL, Go

Interests

- GNU/Linux
- Functional Programming
- Open Source Software
- Compiler/Interpreter Design
- Computer Hardware

Projects

MkvSynth – 2013-Present

Designed, implemented, scrapped, and re-implemented an interpreter for a linear video editing scripting language

- Researched compiler design, abstract parse trees, context-free grammars, and BNF notation
- Wrote an interpreter with Flex+Bison, capable of type inference, function composition, and recursion
- Integrated language with video processing filters via an extensible plugin system

High School Senior Project – 2011-2012

Conceived, designed, developed and presented a microcontroller-based USB PC peripheral

- Selected and purchased appropriate microcontroller, arcade joystick, and button array
- Soldered all connections for joystick, buttons and mode switch
- Documented and described the design and development of the system for project judges