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Work Experience

Freelance Computer Engineering Consultant

Started part time June 2014, full time September 2014.

Working on everything from embedded software to web backend, both design and coding. Some examples include Python scripts for LTO-5 tapes, embedded C programming, a custom code review system, general sysadmin work, a client logging system for an investment management firm, and NodeJS architecture & development.

Samples of freelance work

Alipes

Building internal tools such as code review and logging systems. Maintaining websites and building out new backend tools for frontend developers. Code review for production sites.

Code primarily in PHP, C, and shell.

Bolton Engineering

Embedded coding on custom electronics for the Sparx Skate Sharpener. Including Python coding for mass production of secure NFC tags.

Code in C on a 16-bit PIC. Some code in Python.

Empirical Asset Management

Designed internal management software for client relationship and account tracking. Management software includes pages for aiding in GPS verification.

Coded primarily in PHP, JS, and Python.

Harbor Picture Company

Python scripting to write LTO-5 tapes for 20th Century Fox archives, and for sending footage to the Sony Production Backbone

Coded in Python, worked with LTO-5 tapes.

Previous Jobs

Sumo Logic Software Intern

Full time, summer 2013. Worked on the platform team, ported internal deployment tools to Amazon AWS's Virtual Private Cloud. Began work on a minimal downtime migration plan.

Coded in Scala

KAYAK Software Intern

Full time, summer 2012. Designed and wrote internal tools, one of which processed approximately 400,000 records per week.

Coded in Java.

Education

Massachusetts Institute of Technology

Bachelor's in Computer Science and Engineering, class of 2014.

Skills

Software: C, JavaScript/NodeJS, Java, Scala, PHP, SQL, emacs, elisp, shell scripting, Linux system administration, vi, magnetic tapes, Amazon AWS, SolidWorks.

Miscellaneous fun: Nidan (second degree black belt) in Aikido under Jason DeLucia. Amateur photography. Experience in a machine shop, including waterjet and laser cutter use.