David Sayles

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Education

Bachelor of Science, Computer Science and Digital Art
Union College, Schenectady, NY, 12308
Bachelors Thesis: Evofab: A Fully Embodied Evolutionary Fabricator.

- Wrote an Interactive Evolutionary Algorithm to optimize movement instructions for a 3D printer in order to create specific patterns.
- Co-Wrote conference paper with thesis advisor based on successful findings.

Skills

Languages: Python, C++

Development: Vim, Git, Linux

Spoken Languages: English (native), Japanese (conversational)

Publications

J. Rieffel and D. Sayles. EvoFab: A Fully Embodied Evolutionary Fabricator.
In: 9th International Converence on Evolvable Systems, Sep 6 2010

Experience

Director of Engineering July 2014 - Present
Neverware, Inc, New York, NY

- Work with the CEO and Director of Product to determine product future
- Grew engineering team from 3 engineers to 7, added 2 qa engineers, and technical project manager.
- Work with engineers and other department heads to determine feature priority and scope
- Frequently act as level 2 support to diagnose potential bugs
- Spent about 30% of time working on engineering tasks

Software Engineer Feb 2014 - July 2014
Neverware, Inc, New York, NY

- Engineer on PCReady, a localized virtualization solution for education customers that delivered ephemeral VMs.
- Refactored huge amounts of code to allow clients to connect to VMs using the "Spice" protocol.
- Standardized client/server interface, git usage, and coding style.

Software Engineer Apr 2012 - Feb 2014
Makerbot Industries, Brooklyn, NY

- Architected and wrote *kaiten*, the embedded python server that schedules and organizes processes such as I/O, printing, firmware uploading and other user facing jobs on the new family of *MakerBot* Desktop 3D Printers. Interfaces with the desktop *MakerWare* software stack for remote printing.

- Primary developer on *conveyor*, the current backend server for the *MakerWare* software stack. *conveyor* takes print job parameters from the *MakerWare* GUI, and dispatches to sub-components ranging from the *MiracleGrue* slicer to the *s3g* print driver.
- Primary developer on *s3g* printer driver and machine code utility package for use with *MakerWare* (https://github.com/makerbot/s3g).
- Exercised meticulous test driven development protocol; printer driver has roughly 100% code coverage.

Software Technician Jan 2012 - Apr 2012
Makerbot Industries, Brooklyn, NY
- Wrote extensive Testing/Quality Assurance documentation for software/hardware.

English Teacher Sep 2010 - June 2011
Niimi, Okayama, Japan
- Taught english to elementary school children at 5 different elementary schools.
- Worked in a non-english speaking environment.

Awards

Eagle Scount, Boy Scout Troop 8, Ridgewood NJ