

Jeff Aigner

CONTACT

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OBJECTIVE

To work in a great team environment to help create great applications and systems

SKILLS

Software architecture, design, and implementation of full stack web apps and systems applications; Deployment, configuration, and administration of Linux servers and associated services

Technologies include Python, PHP, SQL, Javascript/jQuery, HTML/CSS, MVC Frameworks (Django, Ruby on Rails, Symfony), Linux Systems, Go, Bash, Ansible, Assembler, Perl, Adobe Flex, HTML/CSS, vim, Emacs, git, svn, gdb, SSH, FTP, (some experience with) Java, Scala, junit, AWS, node.js, NoSQL, C, C++, C#, Haskell, LISP, VHDL, Digital Design, L^AT_EX

EXPERIENCE

ACTIV Financial Systems – www.activfinancial.com

2012 – 2017

Lead Software Engineer

- Created a suite of systems tools and web applications for automating the visualization of ever-changing network layout, market data flow, and application network performance. Included a system for collecting bandwidth measurements in real time with web based graphing and data analysis tools (Go/PHP/Python/Javascript/MySQL/Bash/HTML)
- Redesigned and optimized custom web-based deployment management software, increasing system speed, enhancing usability, flexibility, and user experience (Python/Django/Javascript/MySQL/HTML)
- Designed, managed, and programmed a variety of systems automation tools including dynamic DNS for hosts and network devices (Python/BIND/MySQL), a client permissions verifier (Python/SQL), FTP permissioning tools (Python/SQL), and other systems tools
- Deployed, configured and maintained a highly available Linux virtualization cluster. Administered, managed configuration, and set up monitoring for CentOS Linux and Windows servers with dozens of services and tools including but not limited to: MySQL, Apache, Ansible, Exchange, BIND, SSH, FTP, Nagios, Icinga, nfs servers

Group One Investments

2008 – 2012

Lead Software Developer, & Systems Administrator

- Designed and programmed a web-based system allowing companies to send alerts to their employees via phone calls (text-to-speech), SMS, and email and track the response in real-time (Python/Django)
- Created a web-based learning system allowing companies to create online courses for their employees containing streaming video, file uploads, and dynamic exams (Ruby on Rails)
- Designed and programmed a web-based design tool that exports print quality vector images (Adobe Flex / Python / Django)
- Executed successful penetration tests on both local and client networks and systems (Grid32 Security)
- Administered CentOS / Ubuntu Linux and FreeBSD servers for deploying applications. Major services include: Apache, nginx, MySQL, PostgreSQL, SSH, git, OpenVPN, DNS, FTP

Power Measurement in Performance Bicycles, Illinois Institute of Technology

2010

Collaborated with a team of 10 to refine a power measurement system for bicycles based on torque and velocity measurements. Responsibilities included refactoring and extending current PIC18 microcontroller code and implementing ANT+ wireless communication

Audio Communication with Class-D Amplifiers, Illinois Institute of Technology

2009

Collaborated with a team of 11 to improve speech intelligibility in drive-thru communications systems by developing testing standards and engineering custom software and hardware

United Dental Resources

2003 – 2008

Software Developer & Systems Administrator

- Developed and managed web-based applications with PHP/MySQL, HTML/CSS, and JavaScript with consideration for search engine indexing. Administered the servers required for these applications including FreeBSD and Linux, and services including BIND, Apache, MySQL, QMAIL, SSH and FTP. Executed several full server relocations with no loss of service to the user base

EDUCATION

Illinois Institute of Technology, Chicago, IL

B.S. Computer Engineering, Cum Laude

2006 – 2010