

Jeff Aigner

CONTACT

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OBJECTIVE

To work in a skilled team environment to create bleeding edge and scalable applications and systems

SKILLS

Software architecture, design, and implementation of serverless, full stack, and systems applications; Python 2/3, AWS, Go, PHP, Bash, Javascript/jQuery/bootstrap, HTML5/CSS3, SQL Databases and Programming, Linux Systems, C, MVC Frameworks (Django/Symfony/Ruby on Rails), Ansible, Assembler (MIPS/68k/x86/x64), Perl, Adobe Flex, vim, Emacs, git, svn, gdb, SSH, FTP; Some experience with: C++, Haskell, Scala, Java, junit, LISP, VHDL, Digital Circuit Design, L^AT_EX

EXPERIENCE

Avaya (formerly Spoken) – www.avaya.com 2017 – present
Sr. Software Engineer

- Acted as architect, designer, implementer, and support for serverless architecture systems. These include a near real time messaging system for a real time audio transcription system, and a distributed OAuth2 based login system that federates logins between all of the various systems.
- Created a CI/CD pipeline and other deployment tools for core software. Automated the installation and configuration of stacks that consisted of over 25 servers at a time. Dockerized core application components to make them more reliable and easier to deploy and upgrade.
- Technologies include Linux Systems, AWS (Lambda, API Gateway, CloudFront, S3, IAM, Kinesis, RDS, Route 53, more), Ansible, Jenkins, Docker.
- Languages include Python 3, Bash, Go, Javascript, HTML5/CSS3
- Primarily developing on and for Linux systems and cloud systems. Experience on most flavors of Linux (over 15 years), lately CentOS and Ubuntu.

ACTIV Financial Systems – www.activfinancial.com 2012 – 2017
Lead Software & Systems Engineer

- Created a suite of systems tools and web applications for automating the visualization of the always changing network layout, market data flow, and 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)
- Designed, managed, and programmed a variety of systems automation tools including a realtime network mapper with automated flowcharts (Go/Bash/MySQL/Javascript/PHP/HTML), a client permissions verifier (Python/SQL), FTP permissioning tools (Python/SQL), and many other tools
- Deployed, configured and maintained a highly available Linux virtualization cluster. Administered, managed configuration, and monitored for CentOS Linux and Windows servers with dozens of services including but not limited to: MySQL, Apache, Exchange, BIND, SSH, FTP, Nagios/Icinga for monitoring, nfs servers
- Redesigned and optimized custom web-based management software, increasing system speed, enhancing usability, flexibility, and user experience (Python/Django/Javascript/MySQL/HTML)

Setnine, LLC / Grid32 – www.grid32.com 2008 – 2012
Lead Software Developer & Systems Administrator & Security Engineer

- 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
- Created a web-based learning system allowing companies to create online courses for their employees containing streaming video, file uploads, and dynamic exams
- Designed and programmed a web-based design tool that exports print quality vector images
- Administered CentOS / Ubuntu Linux and FreeBSD servers for deploying applications. Major services include: Apache, nginx, MySQL, PostgreSQL, SSH, git, OpenVPN, DNS, FTP
- Participated in several successful penetration tests

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 – www.americasmiles.com 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 2006 – 2010
B.S. Computer Engineering, Cum Laude

RESEARCH

Wireless Network and Communications Research Center, Illinois Tech 2008 – 2009
Researched, designed, and programmed tools to assist in development of a mobile wireless scanning station. Developed a GPS driver for location tracking and a data conversion tool for compressing and organizing collected data