

Joshua Kugler
PO Box 82229
Fairbanks, AK 99708
907.388.1940
joshua@azariah.com

Job Objective: I am looking for a job which will utilize my experience in the field of computers, especially in the areas of software development, database design and programming, systems administration, and networking as well as expanding my project management experience.

Education: 1999 Graduate, University of Nebraska, Lincoln, Independent Study High School (3.84 GPA) Pursuing a MS in Computer Science at UAF (currently on hold)

Experience:

Web Application Server/Python Web Services Architect - WordStream - 2008-11 to 2009-04

Began position as a system administrator and framework architect. Transitioned into system maintenance, application programming, and database administration. Helped to extend and improve the company's SaaS web application. Scheduled and coordinated planned outages, and researched and installed software to monitor servers to ensure maximum up time. Was responsible for an architecture designed to serve thousands of clients with zero downtime.

Python Developer (WSGI web framework/back end) - S&K Aerospace - 2007-11 to 2008-10

Job entailed designing and coding applications and unit tests for Tack, the in-house WSGI framework (somewhat similar to Turbogears/Pylons). Also wrote various utilities, such as, scripts to take SQL dumps and turn them data-dictionaries, dependency graphs and Python and Javascript CRUD frameworks. Designed and coded functional and integration tests. Performed Linux and Windows system administration.

Lead System Administrator and Senior Programmer - EE Internet - 2006-05 to present

Responsible for daily maintenance of servers, as well as maintenance of in-house scripts and applications. Designed and implemented scripts (python and perl) for weather and environmental data processing, current conditions reporting, and graphing (see <http://photizo.eeinternet.com/>). After successfully arguing for the use of wikis in project documentation, researched, planned, and implemented a "wiki farm" for creating information repositories for both internal use (documentation, project planning) and external use (client communication and collaboration). Planned and executed migrations of: Approximately two dozen domains from an aging Apache 1.3 server to an Apache 2 VMWare guest; DNS service off of two aging machines to new VMWare guests; Sendmail/SpamAssassin based system to a Postfix/Dspam based system; Restructured network from a simple NAT box and servers exposed to the internet to everything behind a firewall.

System Administrator - UAF Center for Distance Education - 2004-09 to 2006-05

Took the initiative to replace an aging and broken backup system with an open-source, cross-platform backup solution (Bacula). Administered 15 server of various kinds (storage, web, database (MySQL), backup), both Linux and Windows and supported 20+ user desktops. Performed small programming and scripting projects as required. Was responsible for spec'ing out, purchasing, assembly, and installation of new servers. When storage was needed, researched, recommended, acquired, and implemented storage servers providing a total of 20.4TB of storage space (Coraid AoE).

Information Services Director - Associated Students of UAF - 2000-02 to 2004-08

Was hired into a new position, so was responsible for setting department policy, duties, and precedent. Did Linux and database administration. Rewrote their legislation tracking database using MS Access as the front end and MySQL as the back end. Was responsible for designing, coding, and implementing, for the ASUAF elections, the first online voting system in the state.

Computer Technician/Database Programmer - Hunt Foods Company - 1998-1999

Was initially hired to do meter reading and reports. When I demonstrated my aptitude in other areas, I was tasked with inventorying for Y2K equipment replacement, setup and maintenance of production floor workstations, maintenance and extension of various in-house MS Access databases, Excel and Access development, and co-administration of Windows NT servers.

Proficiencies

Python, Perl, Linux administration (Debian, CentOS), Apache, Bacula, Lighttpd, Postfix, PostgreSQL, SQLite, MySQL, Database design, Subversion, Trac, Git, Bind (and DNS admin), (X)HTML, TCP/IP and Ethernet Networking, Coraid ATA-over-Ethernet, Buildbot, CherryPy Applications, Munin, Mon (<http://mon.wiki.kernel.org/>), JSON, REST, XML, VMWare Server, some PHP and C/C++

Licenses, Certifications, and Training

- 15 year clean driving record. Hold Alaska Driver's License.
- Leviton One-day Cat5 Cable Installer Training and One-day Fiber Optic Installer Training
- US Government Security Clearance
- No arrests, DUI's/DWI's, or other infractions

Papers

10,001 (Or More) Polling Stations: Voting Virtually @ UAF

<http://jjncj.com/papers/VotingVirtually.pdf>

Improving Open Source Software with an Object Oriented Design Model

<http://jjncj.com/papers/OOD.pdf>

Using the UA Web: Observations, Suggestions, and Comparisons

<http://jjncj.com/papers/UAWebUsability.pdf>

Open Source Involvement and Projects

- Recognized MySQL Community Contributor
- Two patches accepted by the Buildbot project, one of them a new feature
- Minor contributions to rst2pdf (<http://code.google.com/p/rst2pdf/>)
- E-mail and dspam utilities: <http://www.eeinternet.com/opensource.html>
- AWStats Cache File Reader: http://www.azariah.com/open_source.html

Volunteer and Community Experience

2001-2003 Served on the Technology Advisory Board at UAF, which distributes student TAB fees to be used for innovative technology in education.

2000-02,06,07 Served as a judge for the yearly Home School Science Fair

2003/2004 President of the University of Alaska Fairbanks Linux User's Group

Miscellaneous Highlights

Fall, 2002 Nominated by the students of UAF for, and appointed by the Governor to, the position of Student Commissioner for Post Secondary Education, a position with the Alaska Commission on Post Secondary Education.

Fall, 2002 Participant in the first web-based Computer Science graduate course at UAF

Spring, 2003 Invited by the Chair of the UAF Department of Math and Sciences (DMS) to be the student representative for DMS at the UAF College of Science, Engineering and Mathematics planning retreat

Spring, 2004 Appointed by UAF President Hamilton to sit on the University of Alaska Ad Hoc Committee for Accountability and Sustainability, a group convened to make UA more efficient and cost effective.