Alexander Balderson

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github.com/asbalderson | asbalderson.github.io | linkedin.com/in/asbalderson

Self-motivated software developer with more than five years of programming, Linux, and database experience.

Work Experience

Software Development and IT Lead   **August 2017 - Present**

MenuTrinfo LLC   **Fort Collins, CO**

- Develop regression tests for a large set of Python 2 applications and libraries. Work independently to upgrade Python 2 to Python 3; implement logging and packaging via setuptools.
- Leverage APIs to unify online student and test data with local database meeting requirements for ANSI certification. Query collected data for consistent and accurate reporting and billing.
- Configure and maintain server infrastructure, both hardware and software, including seamlessly migrating existing tools and services for end users.
- Design and implement user desktop provisioning using ansible, LDAP, and AutoFS.
- Facilitate business operations by ensuring uptime of critical business hardware and networks with response time within the hour and triage time rarely over four hours.

Linux Distribution Developer   **April 2015 - June 2017**

Hewlett Packard Enterprise   **Fort Collins, CO**

- Enabled teammates and internal partners by writing scripts, tools, and automation with Python and Bash tieing Open Source and Debian tools together to generate customized Debian and CoreOS derivatives involving repositories, packages, images, and ISOs.
- Ensured quality of package content, build, and delivery by developing tests and integrating them into test frameworks. Leveraged Jenkins for job automation and build to ensure trackable and consistent quality. Tackled new use cases and requirements by extending existing tools.
- Architected enterprise lifecycle for Debian and CoreOS derivatives. Designed processes for tracking developer changes, ensured chain of custody, validated quality of content, and provided email notification.
- Managed a group of four engineers. Served as a mentor and leader to teams of interns and high school students providing projects, deadlines, and successful completion.

Software Developer   **March 2014 - April 2015**

Xerox Commercial Services   **Remote**

- Replaced outdated VB.net automation with scripts written in Java to increase report delivery and run rates to 100%, speeding up runtimes, and freeing up teammates. Wrote and maintained test cases for all code using JUnit. Managed the code base, attended to all reported problems, and performed required maintenance.
- Interfaced a database with Java for automatic data loading from MS SQL server 2012 increasing upload speed by more than 800%. Wrote automatic custom email notifications with Java for events and hardware outages, which resulted in decreased event creation and update time, increased response time, and constancy.
- Migrated static reports to a near real-time PHP-based reporting server after aligning with support teams to understand their day-today reporting needs. Created dashboards for the Service Delivery team allowing management to better plan for issues and making outages more visible to the client.

Side Projects

Multiple Choice Test   github.com/asbalderson/amttest

- Wrote an API in Python using Flask, SQLAlchemy and SQLite. Reached code testing coverage over 95% and automated integration with GitHub compatible CI-CD tools.
- Collected requirements and wrote specification based on Model View Controller design pattern.
- Configured and deployed project to Apache 2 environment using FastCGI, virtual hosts, and SSL.
- Created timelines and orchestrated bi-weekly updates with the front end developer.

Eve Online Discord Bot   github.com/asbalderson/evebot

- Organized static world data provided by Eve Online in MongoDB enabling fast lookups for needed data.
- Queried the Eve Swagger Interface for live market data used for pricing for all items.
- Interfaced all data and tools into Discord enabling dozens of users live access to travel and market data.
- Deployed the bot to a Raspberry Pi with flexibility for more robust deployment options.

Education

Colorado State University   **August 2007 - May 2012**

Bachelor of Science: Mathematics (Actuarial Mathematics Concentration)

Bachelor of Arts: Economics

Professional Profile

- Software developer with proven experience working with minimal guidance, breaking down user issues, developing solutions to complex problems, and automating solutions for partners and teammates.
- Highly focused and self motivated while working in fast paced, high-stress startup environments with frequent interruptions and changes.
- Work in positions requiring analysis, evaluation, and discussion determining use cases, stakeholders, and end goals; then drive and execution of solutions.

Software Development and IT Lead   August 2017 - Present

MenuTrinfo LLC   Fort Collins, CO

- Provided software support, maintenance and updates and ensure printer and other hardware maintenance, triage, and uptime.

Linux Distribution Developer   April 2015 - June 2017

Hewlett Packard Enterprise   Fort Collins, CO

- Collected data on repository content and injected it into MongoDB for tracking and reporting. Generated reports for partners and teammates allowing for security tracking and proper change management.
- Led meetings to organize and prioritize work for four engineers. Served as a mentor and leader to teams of interns and high schoolers providing projects, deadlines, and successful completion.

Workforce Team Lead   October 2012 to March 2014

Xerox Commercial Services   Greeley, CO

- Calculated all service level agreement metrics, prepared monthly billing statements, and generated ad hoc, daily, weekly, and monthly trends and events using Java, SQL, and FileMaker Pro. Forecasted call volume for financial planning, hiring new employees, overtime requirements, and scheduling. Updated and corrected old queries saving the company tens of thousands of dollars.
- Maintained a FileMaker Pro database with regular reporting and content updates as business needs changed. Documented and wrote user manuals for changes. Loaded data daily and verified that it was correct. Designed and managed databases in Microsoft Access to accurately track employee statistics, schedules, status, training, position and logns.
- Actively worked with a client daily to ensure all their needs were met. Prepared charts and data for quarterly business reviews with a client and participated in quarterly, monthly, and biweekly meetings with key knowledge and on the spot analysis.
- Checked and automated existing reports with VBA macros in Microsoft Excel to ensure consistency, accuracy and simplicity. Created new automated reports for daily division and site performance analysis and tracking.