Alexander Wauck

DevOps Software Engineer and Systems Administrator with a great love of automation and an intense focus on security and correctness.

Technical Proficiencies

- Languages: Python, Go, bash, C, C++, Rust
- APIs/Frameworks: gin-gonic, Flask
- Databases: PostgreSQL, MySQL, Cassandra, MongoDB
- Operating Systems: Debian/Ubuntu Linux, Red Hat Enterprise Linux/CentOS
- AWS Services (primarily EC2, RDS, S3, CloudFront, Route53, and CloudFormation)
- Ops/Deployment Technologies: Salt, Ansible, OpenShift/Kubernetes, Docker, Jenkins
- Miscellaneous Software and Related Skills
    - Source control: Git, Mercurial, Subversion, CVS
    - Multimedia production and file formats
    - Software reverse-engineering

Work Experience

HealthPartners

Richfield, MN   June 2019-Present

I work with HealthPartners as a DevOps contractor. My job is primarily to maintain, improve, and upgrade several OpenShift clusters.

Securian

St. Paul, MN   August 2018-June 2019

I worked with Securian as a DevOps contractor. I was brought on to improve deployment/operations automation and security, and I made great strides in both areas. I mainly worked with Python scripts and CloudFormation stacks, with EC2 instances being replaceable and run from custom AMIs with auto-configuration scripts instead of configuration management.

Iron Star Consulting

St. Paul, MN   June 2018-Present

Iron Star Consulting is my DevOps/Development/Security consulting company. I do both medium-term contract work (no more than 6 months) and project-oriented contract work.

Exosite

Minneapolis, MN   November 2015-June 2018

Promoted to Senior DevOps Engineer in May 2017.

At Exosite, I worked as a Senior DevOps Engineer. This means that I kept the company's more than 100 EC2 VMs (including an OpenShift Origin cluster) running, along with many other services both in AWS and outside of it. I was highly focused on increasing automation to improve Ops productivity and make management of a large number of VMs and other resources by a small team tractable. I also helped Exosite acquire ISO 27001 certification.

CodeWeavers

St. Paul, MN   March 2015-October 2015

CodeWeavers develops a Wine-based solution for running Windows software on non-Windows platforms (e.g. Linux, Mac OS X) and offers software porting/development services. I wrote security-oriented software for a major defense contractor that subcontracted some work to CodeWeavers.

FPX

Bloomington, MN   May 2014-March 2015

I worked on an acquired product formerly called Glider (now Contract Management by FPX), using Python and Django, among other technologies. I worked on both the frontend (using Flight, Bootstrap, and jQuery) and the backend (using Python and Django), coordinating between the two via REST API. This included some non-trivial frontend work implementing a highly interactive feature on top of a third-party component not designed for the task.

Thomson Reuters

St. Paul, MN   March 2013-May 2014

The part of the company I worked for came from the Reuters side; it provides a batch-oriented financial data distribution service.

- Wrote a deployment test suite for a component that previously lacked such
- Tweaked database queries to retrieve additional data sets
- Implemented new functionality (e.g. more detailed usage tracking) in a server-side C++ program

Intradyn, Inc.

Eagan, MN   August 2012-March 2013

Intradyn, Inc. produces Linux-based email archiving appliances. I developed and maintained the software for these appliances.

- Maintained and improved a complex software system written in Python, Bash, Clojure, Erlang, and C++, using Django, PostgreSQL, and RabbitMQ
- Wrote scripts to automatically fix or enhance PostgreSQL databases and RabbitMQ queues in a fail-safe manner on systems I cannot access directly
- Diagnosed and resolved the occasional customer problem

Open Systems International, Inc.

Medina, MN   September 2010-August 2012

Open Systems International, Inc. produces control and monitoring (SCADA) software, primarily for electrical utilities. I was a software developer maintaining and developing three central pieces of user-facing software.

- Maintained and improved complex software written in C#
- Worked around the occasional bug or quirk in Win32
- Reverse-engineered legacy software
- Occasional maintenance of simple software written in C
- Wrote a specification and unit tests for functionality that sorely needed such

Education

Princeton University, September 2009 – June 2010 (Graduate studies)

Gustavus Adolphus College, St. Peter, MN, May 2009, Summa Cum Laude
BA, Dual Majors: Computer Science (GPA 3.807), Mathematics (GPA: 3.71)