Matt Bruzek

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SUMMARY

Cloud Software Engineer with passion for Open Source software, Continuous Integration (CI) and building high quality software. Worked with most public clouds including Amazon (AWS), Digital Ocean, Google (GCP), and Microsoft Azure. Experienced with Linux container patterns, and a contributor to the Kubernetes project.

COMPUTER SKILLS

Languages: Python, Java, C/C++, Bash (shell scripting)

Clouds: Amazon (AWS), Digital Ocean, Google (GCP), Microsoft Azure, and OpenStack

Containers: Docker, LXD/LXC, rkt, and Kubernetes

Platforms: Apple, Linux, and Microsoft Operating systems

Training: Agile, Automation, Build, DevOps, and software design

EXPERIENCE

Software Engineer   2014 - present

Canonical Ltd.

Juju Ecosystems: Responsible for converting DevOps best practices to code that installs, configures software for multiple Open Source projects and provided education sessions about this process to the community and business partners.

Staff Software Engineer   2004 - 2013

IBM

SmartCloud Entry: Led multiple teams and applied technical expertise to solve issues in cloud management product.

Solution for Compliance in a Regulated Environment (SCORE): Implemented new features and improved performance for a software product that enables Life Science and Healthcare companies to comply with industry regulations.

IBM Systems Director: Designed and development for graphical JSF subcomponent for the IBM Systems Director J2EE product.

Software Engineer   1997 - 2004

IBM

Information Center: Designed, developed and maintained the search, a J2EE application on IBM's external web sites.

Thin Client Manager: Ported the Java Virtual Machine to the Solaris based operating system to enable Java applications to run on the IBM Thin Client. Worked with customers to get their feedback implemented in the graphical user interface for the IBM Thin Client Manager.

EDUCATION

University of Minnesota, *Duluth, MN*   *BS in Computer Science with cum laude honors*

SEC401: SANS Security Essentials

PROJECTS

Canonical
- Created the Canonical Distribution of Kubernetes the officially supported operations to deploy, install and configure a Kubernetes cluster on Ubuntu.
- Developed a Continuous Integration (CI) system in Jenkins to build and test the operations of the cluster and automated publishing the daily reports to Kubernetes testing Github project.

IBM
- Developed automated scripts to install and configure the complex OpenStack distributed systems, enabling SmartCloud Entry to ship a reproducible virtual appliance images.
- Led a team of engineers and testers, all from different products and teams to complete the release requirements for SmartCloud Entry version 2.3.
- Scrum master and team leader for an aglie team of software engineers that implemented key features allowing users to manage their existing VMware virtual environment.
- Planned and coordinated an education event for 30 level two customer support staff from different sites, resulting in better understanding of the product improving customer service and developer support.
- Updated the core code to improve performance and reliability of the entire product. Supported existing customers by prioritizing and fixing reported problems.
- Collaborated with a vendor company (ILOG) to resolve critical problems with the graphical Java Server Faces (JSF) libraries, enabling consumption by the IBM Systems Director product.
- Prioritized the resolution of functional problems by working with the Apache Software Foundation Open Source community, allowing IBM Systems Director to include the open source JSF portlet bridge.
- Supported search software with four releases of the iSeries and eServer products, each release was translated into 33 languages and contained over 30,000 documents per language.
- Created proof of concept prototypes and incorporated the Lucene open source search engine to the Information Center search Java application, improving reliability and accuracy of the search indexes.
- Enabled users of the Information Center to find PDF files by creating a Java PDF parser based on the Adobe PDF 1.4 specification.

CONFERENCE PRESENTATIONS

- The Evolution of the Kubernetes Model
    - 2017 Config Management Camp in Gent Belgium.
- Rolling Out and Managing Kubernetes
    - 2016 Config Management Camp in Gent Belgium.
- Juju Charm Testing and Debugging
    - 2016 Config Management Camp in Gent Belgium.
- Use Nagios to Monitor Your Public Cloud
    - 2015 Nagios World Conference in Saint Paul Minnesota.

ACCOMPLISHMENTS

- Co-inventor of United States Patent 7,472,115, "Contextual flyout for search results"
- Created and delivered a Linux introduction class for the Rochester Community Education Adult enrichment department and the Rochester Public Library.
- Leader of the Rochester Python Meetup group https://meetup.com/PyRochesterMN
- Board member of the Rochester Active Sports Club (RASC) bicycle steering committee.
- Member of the Rochester makerspace creating electronics projects with Arduino and Raspberry PIs.