

Matthew 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), Microsoft Azure. Experienced with Linux container patterns, and a contributor to the Kubernetes project.

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

Canonical Ltd. - Rochester, MN

January 2014 – Present

Software Engineer – Juju Ecosystem Engineering.

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.

- Developed the Canonical Distribution of Kubernetes the officially supported operations to deploy, install and configure a Kubernetes cluster on Ubuntu.
- Created 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 – Rochester, MN

June 1997 – June 2013

Staff Software Engineer, SmartCloud Entry.

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

- 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 agile team of software engineers that implemented key features allowing users to manage their existing VMware virtual environment.

Staff Software Engineer, Solution for Compliance in a Regulated Environment (SCORE).

Designed and implemented new features for a software product that enables Life Science and Healthcare companies to comply with industry regulations.

- 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.

Staff Software Engineer, IBM Systems Director.

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

- 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.

Software Engineer, Information Center.

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

- 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.

Software Engineer, Thin Client Manager.

- Worked with customers to get their feedback implemented in the graphical user interface for the IBM Thin Client Manager.
- Enabled Java applications to run on the IBM Thin Client by porting the Java Virtual Machine (JVM) to the Solaris based operating system.

EDUCATION

Completed the **SEC401: SANS Security Essentials** course that builds skills and techniques needed to secure an organization's critical information assets and business systems.

BS in Computer Science, University of Minnesota, Duluth MN, 3.58 GPA graduated with cum laude honors.

CONFERENCE PRESENTATIONS

The Evolution of the Kubernetes Model at 2017 Config Management Camp in Gent Belgium.

Rolling Out and Managing Kubernetes at 2016 Config Management Camp in Gent Belgium.

Juju Charm Testing and Debugging at 2016 Config Management Camp in Gent Belgium.

Use Nagios to Monitor Your Public Cloud at 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.