

Ryan Bak

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Technical Skills:

- **Programming Languages:** Python, Java, Go
 - **Other Technologies:** Puppet, Ansible, OpenStack, AWS, Docker, Kubernetes, Kafka, Elasticsearch, Kibana, Redis, Postgres, Linux, Jenkins, Git
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Work Experience:

Software Engineer – Cray/HPE

March 2019 – Present

- Designed and developed microservices for managing HPC infrastructure.
 - Designed and developed microservices for configuration management and boot orchestration.
 - Managed deployment of the microservices.

[Python, Ansible, Kafka,
Redis, Postgres, Gitea]
[Kubernetes, Docker, Helm]

Software Engineer – Cloudvisory

February 2018 – March 2019

- Developed microservices for use in a cloud security product.
 - Designed and developed microservices for use in a network flow collection pipeline.
 - Designed and developed a service using machine learning to produce recommendations.
 - Developed software to work with many cloud technologies.

[Go, Java, Kafka,
Elasticsearch, Kibana]
[Python]

[Openstack, AWS, Azure]

Senior Engineer, OpenStack DevOps – Charter Communications

May 2014 – February 2018

- Developed monitoring and recovery tools for a production scale cloud.
 - Developed Monasca, the OpenStack monitoring solution, for use as both an internal monitoring tool and to provide monitoring as a service.
 - Deployed and tested Monasca with multiple backend databases.
 - Improved the Monasca UI, and developed Grafana integration.
 - Developed automated recovery tools to assist in incident response.
 - Presented session on Cloud Monitoring at the 2016 OpenStack Summit in Austin.
- Contributed to open source projects including OpenStack and Grafana.
- Automated deployment of cloud infrastructure.
 - Developed a Puppet module to automate deployment of Monasca.
 - Automated the deployment of A10 load balancer configurations.

[OpenStack, Monasca]

[MongoDB, InfluxDB, Vertica]
[OpenStack, Javascript, Grafana]
[Python]

[Gerrit, Jenkins]

[Puppet]

[Jenkins, Ansible, Ruby]

Software Developer – United States Department of Agriculture

October 2012 – April 2014

- Developed and debugged Root Zone, a research-level crop modeling application.
- Integrated PEST, a model-independent parameter estimation software, with Root Zone.
- Developed graphical user interfaces in C++ with Windows Visual Studio 2010.

[C++, Fortran]

[C++]

[C++]

Certifications:

Certified OpenStack Administrator

License COA-1700-0436-0100

AWS Certified Solutions Architect – Associate

License D7WCHHFCKFQ41MCW

Education:

Colorado State University, Fort Collins, CO - **Masters of Computer Science**, May 2014

St. Olaf College, Northfield, MN - **Bachelor of Arts in Physics**, May 2012