Jack Z. Bruno

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Summary

A detail-oriented software engineer with over ten years of experience combining development and operations experience to deliver reliable, scalable, and maintainable solutions. Maintains a deep and current understanding of industry standards through an enthusiasm for all things technology. Always looking for opportunities to work with companies that are making a positive impact in the world through social justice, environmental improvement or community activism.

Experience

Lead Applications Developer at Charter Communications   Mar. 2019 – Present

Lead a team of 12 engineers tasked with maintaining a container platform composed of 14 products that enabled development and operations teams at Charter to effectively transition from VM-based to container-based deployments. The next generation of container platform tools helped standardize deployments and implement advanced processes like canary deployment and completely automated CI/CD.

- Mentored engineers both within and beyond the team
- Introduced standards to increase velocity and decrease bugs
- Planned and prioritized work for the team
- Architected and solutioned new products
- Realigned current platform to focus on products that add value to the company
- Supported large development organization in training and use of platform tools

Skills: AWS, Go, Helm, Kubernetes, Docker, GitLab CI, Terraform, Vault, Consul, Bash

Sr. Software Engineer at Charter Communications   Jan. 2018 – Mar. 2019

Served as project lead and managed a team of engineers tasked with identifying AWS dependencies for existing applications. Automated and deployed a subset of those applications into Azure providing a better understanding of work required to create a more cloud agnostic posture.

Skills: Go, AWS, Azure, Helm, Kubernetes, Docker, Terraform, Bash

Mentor at Charter Communications   Apr. 2018 – Aug. 2019

Mentored a college summer intern on end to end software and platform engineering including Agile processes, development, and deployment.

Experience Cont.

Sr. Software Engineer at Charter Communications   Apr. 2017 – Jan. 2018

Helped design and develop tools to support disaster recovery for existing AWS infrastructure and microservice applications. Automated import of AWS infrastructure into Terraform. Developed Go based CLI tools to backup and sync infrastructure and data between active and passive AWS accounts. Performed team lead responsibilities late in the project.

Skills: AWS, Go, Terraform, Bash

Sr. Software Developer at ProKarma   Dec. 2015 – Apr.2017

Designed and developed a release automation platform including a REST API and web UI to replace an existing manual microservice deploy process. Parallelized release of large groups of microservices and configuration as a single release manifest that could be tracked and easily handle rollbacks.

Skills: AWS, Python, Celery, MongoDB, Netflix OSS, Asgard, Nexus, Jenkins, Crowd

Sr. Systems Developer at Pearson   Dec. 2012 – Dec. 2015

Designed and developed a cloud agnostic IaaS for self-service deployment of AWS and VMWare resources by development teams. The platform supported 70+ teams and 5000+ virtual instances across pre-production and production environments. Configuration of compute resources was controlled by Puppet allowing our team to reliably patch the Heartbleed vulnerability on 5000+ instances in a couple of days instead of weeks or months.

Skills: AWS, Python, Celery, MongoDB, AngularJS 1, Bootstrap 2, Puppet, VMWare vCD

Sr. Systems Integration Engineer at Pearson   Jul. 2012 – Dec. 2012

Developed and supported tools for monitoring 80+ applications including a highly trafficked and highly available Learning Management System for online learning. Created a framework for using Selenium test cases as synthetic user monitors.

Skills: AngularJS 1, Selenium, Java, RightScale, AWS

Systems Integration Engineer II at eCollege   Sep. 2010 – Jul. 2012

Designed and developed tools for monitoring a highly trafficked and highly available Learning Management System for online learning. Gave visibility into 60+ clustered services on 100+ servers helping reduce incidents due to service availability and capacity.

Skills: IIS, ASP.NET MVC, C#, MS SQL Server, Javascript, HTML, CSS, Syslog, MySQL

Experience Cont.

Systems Integration Engineer at eCollege   Apr. 2008 – Sep. 2010

Implemented and maintained application monitoring providing visibility into failing services and allowing quick resolution of issues.

Expert Consultant at Security with Advanced Technology   May 2007 – Nov. 2007

Consulted on a project involving projectile physics. Worked with ballistics, designed and built apparatus to collect data, worked with video and still cameras, and performed video editing. Completed analysis on collected data.

Certifications

AWS Certified Solutions Architect – Associate (expired)   Nov. 2017

Education

B.S. Physics at University of Colorado - Denver   2005 – 2007

Computer Science Major at University of Colorado - Boulder   2001 - 2004