

# Jack Z. Bruno

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## Summary

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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 and their community.

## Experience

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**Principal Engineer I** at Charter Communications Mar. 2021 – Present

Worked with architecture and development teams to design, plan, and implement service mesh and observability to enable development and operations teams to deploy applications faster and more reliably.

Member of several community of practice groups that help create company-wide standards for software delivery. Contributed to the creation and review of policies and standards.

**Lead Software Engineer** at Charter Communications Mar. 2019 – Mar. 2021

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, Kubernetes, Docker, Helm, Go, Python, Bash, Terraform, Vault, GitLab CI

## Experience Cont.

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### **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.

### **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

## Experience Cont.

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**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

**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

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

## Education

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

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