Jonathan C Ploucha

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RELEVANT EXPERIENCE

Director of Infrastructure

Branding Brand Pittsburgh, PA   October 2019 - present

- Designed, built, and implemented new Kubernetes-based infrastructure to replace a legacy Apache Mesos-based one.
- On track to realize approximately $250,000 annually in cloud hosting savings for Branding Brand by leveraging managed services and open source software.
- Upgraded, improved logging and monitoring platforms to achieve an uptime of 99.99% across mobile web retail sites.
- Implemented infrastructure-as-code paradigm using Terraform.
- Overseeing all new information security and privacy policies including PCI, GDPR and CCPA compliance.
- Managing a team of four direct reports.
- Responsible for managing a 24/7/365 on-call infrastructure and security rotations utilizing PagerDuty. Acted as the primary point of contact for client communications.
- Designing cost-reduction strategies for an external client's infrastructure.

DevOps Engineer II

Branding Brand Pittsburgh, PA   March 2019 - October 2019

- Upgraded the operating system in a legacy Ubuntu-based infrastructure by two major releases on a compressed schedule for security compliance.
- Concurrently maintained three bespoke infrastructures on a 24/7/365 schedule as part of a team of two.
- Migrated to an entirely cloud-based (AWS) infrastructure from a hybrid setup.
- Introduced Istio service mesh into an external client's infrastructure, allowing for advanced deployments and microservice routing.
- Responsible for creating and implementing a PCI compliant internal network as an extension of the CDE.

Operations Engineer

Branding Brand Pittsburgh, PA   July 2017 - March 2019

- Built a GCP GKE infrastructure and CI/CD system as well as wrote CI/CD pipelines for an external client.
- Re-engineered deployment processes and infrastructure to allow for blue/green deployment.
- Created an organizational GitHub mirror in AWS CodeCommit providing codebase redundancy.
- Rebuilt Jenkins CI system from the ground up, implementing a microservice infrastructure allowing for a flexible and scalable platform utilizing AWS Elastic Container Service.
- Designed and implemented automated network and web hosting architecture for distributed applications, both through Chef architecture and ad hoc methods.
- Managed configuration and administration of Linux virtual servers and networks, particularly within AWS.
- Built a recommendation engine to suggest appropriate memory, CPU and container instance count for all applications across internal environments and AWS regions to optimize infrastructure resource allocation amongst EC2 instances.
- Handled service monitoring and alert response, scaling applications and infrastructure as needed.

Automation Developer

Branding Brand Pittsburgh, PA   November 2015 - July 2017
- Assisted in building a robust, automated functional testing system for websites and native applications.
- Successfully redesigned and rebuilt the NoSQL database powering the functional testing system into a fully normalized, relational database.

Analyst

Branding Brand Pittsburgh, PA   December 2014 - November 2015
- Responsible for end to end integration and regression testing for new website and native application projects.
- Developed, launched, and managed the native app build and release management processes.

Data Coordinator

University of Pittsburgh Pittsburgh, PA   November 2011 - December 2014

EDUCATION

University of Pittsburgh School of Arts and Sciences, Pittsburgh PA
Bachelor of Arts, Cum Laude, August 2010
Majors: Economics, Political Science

University of Pittsburgh School of Information Science, Pittsburgh PA
Bachelor of Science, Ongoing
Major: Information Science

HONORS/AWARDS

Phi Eta Sigma Honor Society
National Society of Collegiate Scholars
Dean's List

APPLICABLE SKILLS

- **Containers:** Docker
- **Container Orchestration:** Mesos + Marathon, AWS ECS, AWS Fargate, AWS EKS, Kubernetes, GKE
- **Continuous Integration:** Jenkins, Travis, GCP Cloud Build
- **Databases:** AWS ElastiCache, AWS RDS, MongoDB, MySQL, Redis
- **Incident Management:** PagerDuty
- **Infrastructure:** Apache Mesos, Apache Zookeeper, AWS EC2, Chef, AWS CloudFormation, Terraform
- **Languages:** Groovy, Java, Javascript, Python, Ruby, SQL
- **Logging:** AWS CloudTrail, Elasticsearch, Grafana, Logstash, Kibana
- **Operating Systems:** Linux (Ubuntu, Debian), MacOS
- **Serverless:** AWS Lambda, GCP Cloud Function
- **Version Control:** Git, Github, AWS CodeCommit