

Gavin Belson

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SUMMARY

Software engineer with 3+ years experience in designing and providing cloud-native platforms. Seeking to leverage experience implementing REST API based services and solid knowledge of cloud computing.

EXPERIENCE

Software Engineer

Amazon Web Services

March 2020 - Current, Seattle, WA

- Implemented Jupyter notebook provisioning service with Django, Go, and Kubernetes.
- Designed and implemented Apache Hadoop, Apache Spark, Elasticsearch cluster provisioning service with Django, Go, Kubernetes, and Helm to process log data from 4/4m+ MAU.
- Designed and implemented image prepulling service for 200+ nodes of kubernetes cluster. Startup times of instances reduced from 20+ minutes to less than 10 seconds.

DevOps Engineer

Microsoft

January 2020 - March 2020, Seattle, WA

- Managed Kubernetes clusters(500+ nodes, 1m MAU) with Istio service mesh.
- Delivered Kubernetes-based development environment with AWS EC2 at 30+ instances.
- Implemented a continuous delivery system for microservices and A/B test with Kubernetes, Istio, Python Django, and GoCD.

Web Developer

Google

December 2016 - January 2020, Seattle, WA

- Designed Cloud network architecture with Software Defined Networking targeted 100+ nodes of datacenter.
- Designed and implemented Kubernetes CNI plugin with Go to provide additional network features including public IP provisioning, multi tenancy.
- Implemented underlay Software Defined Network controller including Proxy ARP, Routing, TLS, ACL functions with C, and OpenFlow protocol.
- Implemented overlay Software Defined Network controller with VXLAN, OpenFlow protocol, and Go.
- Developed patented consensus algorithm invented for High Availability of the controllers.
- Participated in Elasticsearch-based log aggregation system development.

Software Engineer Intern

Salesforce

July 2014 - August 2014, Seattle, WA

- Implemented compute node clustering service with Python-based on Openstack Nova at 100+ nodes.

EDUCATION

Master of Engineering, Computer Science

University of Washington • 2017

Bachelor of Engineering, Computer Science

University of Washington • 2015

SKILLS

Language: Python, Go, C, JavaScript

Cloud system: Kubernetes, Helm, Docker, Istio

Databases: Redis, MySQL, Elasticsearch

Framework: Django, Echo, React, Apache Spark, Apache Hadoop