

BRANDON LO

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EDUCATION

Oregon State University

JUNE 2018

Bachelor of Science in Computer Science (GPA: 3.72/4.00)

TECHNICAL SKILLS

Languages: Python, Java, C++, C, Groovy, Bash

Technologies: Apache Hbase, Apache Spark, PostgreSQL, Git, Maven, Terraform, Ansible, Rancher, Docker, AWS, Azure, GCP, LDAP, Kerberos, Helm, Active Directory, Kubernetes, Jenkins, Esxi 5.5/6.0, SBT, Kubespray, Drone.io, BIND9/DNS, Jira

WORK EXPERIENCE

Splice Machine

San Francisco, CA

Cloud Engineer

SEPT 2018 - JULY 2021

- Cloud/SRE Team: Python, Golang
 - Automated provisioning of k8s infrastructure and of our big data stack on AWS/Azure/GCP/Baremetal.
 - Piloted the migration from an on-prem Jenkins to a k8s Jenkins to cut down testing time by 75%.
 - Built and managed CI/CD pipelines for Docker images with Jenkins on k8s.
 - Leveraged Slack's API to setup monitoring and health checks of our DBaaS infrastructure.
 - Architected automated end to end pipelines of k8s for regression and performance testing.
- Product Development Team: Java, Python, SQL, Bash
 - Managed releases of all software components hosted on Nexus and Amazon S3.
 - Constructed CI/CD pipelines for our artifacts which were deployed at 3 Fortune 500 companies.
 - Streamlined the existing build deployment pipeline from 15 steps to 2 steps.
 - Identified issues in testing infrastructure which reduced build time from 72 hours to 4 hours.
 - Programmed and integrated a custom Splice's DB service for Cloudera and MapR big data platforms.
 - Extended platform support for our service for Cloudera, Hortonworks, and MapR distributions.
 - Oversaw 150+ baremetal servers for big data clusters on Windows and Linux.
 - Implemented System Security Securities Daemon with AD/LDAP for security testing.

PROJECTS

[GITHUB.COM/BKLO94](https://github.com/BKLO94)

Multithreaded Job Mapping App: C, Python, PostgreSQL, HTML/CSS, Javascript

- The app aggregates all available software engineering jobs in the US and renders an interactive map.
- Utilized OpenMP and C to call and parse 250k+ requests per minute for job data from multiple APIs.
- Created an interactive geo-location map and table with Leaflet and Mapbox API.
- Implemented multithreaded sockets to stream data into the Postgres database.

CSimple Compiler: C++, x86 Assembly, Python

- The compiler takes a C like source language and translates it to linkable x86 ASM target language.
- Automated compilation with Makefile and created a wrapper with Python to improve usability and testing.
- Built a simple cli with python and bash to interact with the compiler and source code.