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 our on-premise cluster deployment on Windows and Linux.
  - Implemented System Security Securities Daemon with AD/LDAP for security testing.

Projects

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.
- Programmed the compiler processs of a scanner, parser, abstract syntax tree and generator.
- Built a simple cli with python and bash to interact with the compiler and source code.