BRANDON LO

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WORK EXPERIENCE

Splice Machine   San Francisco, CA
Cloud Engineer   Sept 2018 - Present
- Cloud/SRE Team
  - Setup and maintained Kubernetes platform on AWS.
  - Developed automated end to end pipelines of Kubernetes in EKS and GKE.
  - Built and managed pipelines for Docker images with Docker in Docker.
  - Piloted the migration from an on-prem Jenkins to a k8s Jenkins to improve scrum team velocity.
  - Leveraged Jenkins Slack plugin API to run and return status of pipelines in Slack.
  - Deployed EC2 infrastructure with terraform and ansible to setup big data clusters.

- Product Development Team
  - Managed releases of all software components on a Nexus repository and Amazon S3.
  - Designed and implemented a pipeline to create, test, and deploy our standalone artifact.
  - Built a tool to streamline the existing build pipeline from 15 steps to 2 steps.
  - Identified issues in the test infrastructure which reduced build time from 72 hours to 4 hours.
  - Created a custom service and integrated it into Cloudera and MapR big data platforms.
  - Extended platform support for our service for Cloudera, Hortonworks, and MapR distributions.
  - Deployed Windows and Linux images onto the colo infrastructure and setup big data clusters.
  - Implemented System Security Securities Daemon with AD/LDAP for cluster security.

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.
- Utilized OpenMP and C to call and parse 250k+ requests per minute for job data from multiple APIs.
- Built a simple cli with python and bash to interact with the compiler and source code.

EDUCATION

Oregon State University   JUNE 2018
Bachelor of Science in Computer Science (**GPA**: 3.72/4.00)

TECHNICAL SKILLS

Languages: Python, Java, C++, C, Bash
Technologies: Apache Hbase, Apache Spark, PostgreSQL, MySQL, Git, Maven, Terraform, Ansible, Rancher,
                     Docker, AWS, Azure, GCP, LDAP, Kerberos, Helm, Active Directory, Kubernetes, Jenkins,
                     Esxi 5.5/6.0, DNS, DHCP