James Liu

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Summary

Senior software engineer with 7+ years of experience developing Cloud solutions, ML platforms and Developer platforms. Tech lead of Kubeflow Pipelines and Vertex Workbench, with management responsibility for a team of 3 engineers. Owner of Google Cloud distribution for Kubeflow. Administrator of Open Source ML Platform Kubeflow.

Experiences

Google, LLC

Jan. 2020 - Present — Senior Software Engineer | Cloud AI Platform (Kubeflow, Workbench, Pipelines)
- Built Workbench service to reconcile and monitor Notebook in distributed system, met Enterprise-grade horizontal compliance (RESTful API, gRPC, AuthN/AuthZ, Observability, Billing, IAM, Security, etc.)
- Developed multi-cluster, multi-namespace solution for ML Pipelines and Kubeflow,
- Main contributor of Kubeflow Pipelines V2: Universal standard for Pipeline Definition and Metadata Tracking, with modern DAG visualization.
- Released Kubeflow 1.3 - 1.5, mentored teammates to release newer versions.

May. 2018 - Jan. 2020 — Software Engineer | Firebase
- Migrated Performance Monitoring to multiple new infrastructures (Logging System, Installation Services, Firebase Remote Config) on-flight with high QPS traffic.
- Created a new Firebase JavaScript SDK for monitoring web app performance, which drives a better Web ecosystem for developers and Chrome.
- Added Custom URL pattern feature for network request monitoring.
- Built app performance issue management service.

Microsoft Corporation

May. 2016 - Apr. 2018 — Software Engineer | Azure Identity
- Built Azure Active Directory Domain Services on Azure portal.
- Built features on on-premises Active Directory Server Admin with C#.
- Improved Azure Active Directory Android Solution (Workplace Join).

Amazon.com, Inc.

2015 — Software Development Engineer Intern | Whispercast
- Added Recipient Search (with auto-complete) at Kindle Whispercast platform.

Skills & Tools

- **Programming Languages**: Java, Python, TypeScript, Golang, C#,C++
- **Domains**: Cloud application, Data processing, Multi-cluster Management, Web/UI development, Server Architecture, Mobile development (Android), RESTful API, gRPC, Kubernetes MicroService
- **Tools and Frameworks**: React, NodeJS, MapReduce, SQL, GCP, Protocol Buffers, Guice, Linux, GitHub, Docker, Kubernetes, Cloud Build, Prow, Cloud Storage, helm/kustomize/kpt (similar to Terraform)
- **IDEs**: IntelliJ, Android Studio, VS Code

Mentorship & Education & Others

- **Tech Lead** for MLOps on Kubernetes team (3 engineers): Conduct planning and scoping, representing the team in cross-team collaboration, influence and coach the team for engineering best practices.
- **Mentor** of 4+ Google full-time and intern Software Engineers.
- Design/develop/test/release/maintain software solutions in Open Source project Kubeflow and maintain connection with **CNCF**.
- Conferences: Droidcon NYC, Chrome Dev Summit, DinosaurJS, Kubeflow Summit
- Master of Computer Science in University of California, Irvine.
- Multi-language speaker: English, Mandarin, Japanese, Cantonese.