

Albert Zhang

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Employment History

- 📌 **Software Engineer II - O.C. Tanner** *June 2022 – Current*
Backend microservice developer for Culture Cloud team. Created API endpoints with up to 4k calls every second and maintained backend for the Culture Cloud employee HR software product with 30+ million users handling notifications, profiles and user feeds using Java, Kafka, Postgres and elastic search. Responsibilities include creating GraphQL queries/mutations, creating and maintaining Kafka consumers, producers, connectors, and KStream apps for data flow between micro services, optimizing Postgres, Oracle and Elastic Search Database, maintaining and updating security vulnerabilities, research and contributing to architecture designs, creating new dev environments and pipelines, performing data migrations, writing documentation, breaking down tickets and large projects, and mentoring new software engineers and interns.
- 📌 **Software Engineer Intern - Herbalife Nutrition** *May 2021 – August 2021*
Designed and implemented automation scripts to streamline user server management, reducing manual overhead and improving system reliability. Contributed to the stability of internal infrastructure by developing tools and utilities that enhanced efficiency for IT administrators.
- 📌 **Software Engineer Intern - Cox Automotive** *May 2019 – August 2019*
Worked as a backend developer for dealership management software. Implemented and optimized backend API endpoints to support dealership operations that supported 22,000 car dealerships using C , while also creating and executing regression tests to improve test coverage and ensure high code quality in production.

Skills

Languages	📌 Java, C# , C++, C, Python, MatLab, R, Javascript/Typescript
Databases	📌 MySQL, PostgreSQL, Oracle DB, SQLite, Google Firebase, ElasticSearch/Open Search.
Technologies	📌 AWS (Lamdas, RDS, Kubernetes, S3, Redis), Google Cloud, Kafka , JSON, Jenkins, Docker, Linux, Apache Web Server, Tomcat Web Server, Microsoft Copilot

Projects

Culture Cloud Social Wall	📌 Architected and implemented a scalable social pipeline serving 30M+ users, enabling legacy, migrated, and new user support with a feature-rich social wall while maintaining 100 uptime under peak traffic.
Live Data Source Tracker	📌 Integrated a fully automated live data source tracker producing a compiled mp4 file of the user's selected time that was scraped in Python and C++. Utilized Docker, Selenium, AWS's EC2 instances, and Elastic File System.
AutoStock	📌 Implemented a web-based platform that acted as a abstract interface for users to create, learn and test different automated stock trading algorithms using React, GraphQL, Google Cloud, and Flask.

Education

2017 – 2022 📌 **B.S., University of Utah** Computer Science