

Zhiyuan Ouyang

LinkedIn: [linkedin.com/in/zhiyuanouyang](https://www.linkedin.com/in/zhiyuanouyang)

Website: zhiyuanouyang.vercel.app

Email : zhiyuan.ouyang.jobs@gmail.com

Mobile : +1-412-951-3268

WORK EXPERIENCE

-  **Google** Sunnyvale, CA
 - Gemini Enterprise, Vertex AI Search — Senior Software Engineer | TechLead* *Jan. 2024 - Present*
 - Led engineer team(5-10 engineers) in backend and infrastructure development for Gemini Enterprise integrations and Cloud Retail Search.
 - Led design and implementation for scalable search and agentic infrastructure for Vertex AI and Gemini Enterprise features, including Search and Agentspace, driving cross-organizational collaboration with PMs, UX designers, and engineering teams.
 - Owned system architecture, technical roadmap, engineering execution, launch readiness, and cross-team alignment for multi-quarter projects, ensuring timely delivery of enterprise-grade AI solutions.
-  **Flexport** San Francisco, CA
 - Commerce Marketplace — Senior Software Engineer | TechLead* *Jul. 2023 - Jan. 2024*
 - Tech lead for multiple critical marketplace systems, overseeing 3-5 engineers across analytics and real-time matching.
 - Designed and built a quasi-real-time global freight analytics platform, transforming multi-hour latency workflows into near-instant insights used by operations and forecasting teams.
 - Led architecture and development of a real-time freight matching marketplace, replacing manual engineer-dependent processes with automated, high-throughput matching powered by streaming data.
 - Drove cross-functional collaboration with product, data science, and operations; owned roadmap planning, execution, and successful rollout of marketplace systems.
-  **Google** Sunnyvale, CA
 - Workspace Enterprise — Senior Software Engineer | TechLead* *Sep. 2019 - Apr. 2023*
 - Led engineering teams (5-10 engineers) in delivering critical auth, onboarding, and identity systems for Workspace
 - Designed and delivered OpenID based identity flows, reducing friction and significantly improving activation and bounce rates.
 - Built large-scale onboarding platform supporting advanced enterprise features; improved conversion and reduced operational overhead.
 - Mentored junior engineers, managed cross-org design reviews, and ensured high-reliability launches.
-  **Oracle** Redwood Shores, CA
 - Oracle Cloud Infrastructure — Software Engineer* *Mar. 2017 - Sep. 2019*
 - Built data processing pipelines for ingestion, storage, ETL, indexing and analytics systems powering multi-region enterprise workloads.
 - Implemented DevOps modernization: CI/CD, container orchestration, service mesh, and automated testing.




SIDE PROJECTS

- **facelink.vercel.app**: Built a social app that maps user connections, identifies relationship clusters, and enables interactive exploration of multi-hop social networks.
- **babybuys.vercel.app**: Developed a web app that aggregates baby product data and real-time discounts, featuring automated data collection, clean categorization, and an intuitive interface for easier purchase decisions.

SKILLS

- **Languages**: Java, Python, C++, SQL, TypeScript, JavaScript, Kotlin, Ciphер, HTML/CSS
- **Databases**: MySQL, PostgreSQL, MongoDB, Redis, Memcached, Cassandra, Neo4j, Elasticsearch, Opensearch, Prometheus, InfluxDB, IndexedDB, SQLite, H2
- **Backend**: Node.js, NestJS, Spring Boot, Flask, Django
- **Frontend**: React, Next.js, Tailwind, Material-UI
- **Big Data**: Spark, Flink, Storm, Hadoop, Hive, Impala, Superset, Kafka, RocketMQ, RabbitMQ, Zookeeper
- **DevOps & Infrastructure**: Docker, Kubernetes, Jenkins, TravisCI, Maven, Gradle, Bazel, Git, Mercurial, HAProxy, Nginx, Kong, Envoy, Grafana, Logstash, Fluentd

EDUCATION

-  **Carnegie Mellon University** Pittsburgh, United States
M.Sc. in Computer Engineering Aug. 2015 – Dec. 2016
-  **Katholieke Universiteit Leuven** Leuven, Belgium
B.Sc. in Electronic Engineering, Magna Cum Laude Aug. 2013 – Jul. 2015
-  **Beijing Jiaotong University** Beijing, China
B.Eng. in Electronic Engineering, Si-Yuan Honors Program Sep. 2011 – Jul. 2015

CERTIFICATION

-  **Massachusetts Institute of Technology**
MicroMaster of Finance Oct. 2023