Alex Maeda *Senior Software Engineer*

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PROFILE

9 years in software engineering across Google, Uber and Meta. I like hard problems, the kind where requirements are half-formed, the system doesn't exist yet, and shipping late isn't an option. I work best in fast-moving environments where things change quickly and ambiguity is the default. I sweat the details, ask the right questions, and translate what stakeholders really need into backend systems that hold up under real pressure. Strong with Golang, Python, Kafka, and AWS.

SKILLS

Programming Languages: Go, Python, Java, SQL

Backend & APIs: Go microservices, Fiber, Gin, Python (FastAPI, Flask, Django), REST, GraphQL, gRPC, Thrift

Distributed Systems & Streaming: Apache Kafka, Event-driven architecture, ETL pipelines, Real-time & batch processing

Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB

Cloud & Infrastructure: AWS (EC2, ECS, RDS, Lambda, S3), Kubernetes, Docker, Terraform, CI/CD

Observability & Reliability: Distributed tracing, Structured logging, Metrics, Alerting, SLO-driven systems

ML Infrastructure (Production): PyTorch inference services, SageMaker deployment

PROFESSIONAL EXPERIENCE

Software Engineer 12/2024 – Present | Seattle, WA

Meta

- Architected and helped launch Site Links for Meta Ads, contributing to a feature that scaled to $7B ARR within two months and reached $11B ARR during Cyber5 peak traffic, validating the product roadmap and delivering significant revenue growth.
- Designed and built clean, scalable backend services in **Python**, exposing high-throughput **Thrift/gRPC** APIs for ad creation, metadata retrieval, ranking signal ingestion, and delivery workflows.
- Deployed services on **Kubernetes**, implementing autoscaling and multi-region failover to handle Cyber5 traffic spikes while meeting strict availability targets, following infrastructure best practices throughout.
- Built asynchronous pipelines using **Kafka** to decouple ingestion, validation, and ranking signals from downstream ad delivery systems, improving resilience and enabling independent team iteration.
- Reduced P99 latency on high-traffic retrieval paths through multi-layer **Redis** caching and distributed graph storage, significantly offloading primary databases under peak QPS.
- Participated in capacity planning, load testing, and traffic shadowing to validate system performance at scale, and communicated findings and risk tradeoffs to relevant stakeholders.
- Improved system reliability through monitoring, distributed tracing, metrics instrumentation, structured logging, and proactive alerting, reducing MTTR and enabling faster incident response.

Software Engineer 01/2022 – 11/2024 | San Francisco, CA

Sofar Ocean

- Led development of backend-heavy systems supporting ingestion, processing, and visualization of real-time oceanic and atmospheric data from Sofar's distributed Spotter buoy network.
- Built scalable backend data pipelines in **Python** processing real-time telemetry from distributed ocean sensor networks, applying clean architecture patterns to ensure long-term maintainability.
- Developed production **REST** APIs using **FastAPI** and **Django**, delivering real-time ocean predictions in line with product and stakeholder requirements.
- Designed geospatial processing systems using **PostgreSQL** for spatial analysis and deployment optimization.
- Built web dashboards and mapping applications using **React**, **TypeScript**, and **GraphQL** with **Mapbox/Leaflet** to efficiently fetch and display buoy health, ocean conditions, and model outputs, translating complex data into accessible product solutions.

- Deployed infrastructure on **AWS** (**EC2**, **RDS**, **S3**, **Lambda**) using **Docker** and **CI/CD** pipelines to support reliable ingestion and processing at scale, with monitoring and alerting in place across all critical services.

Software Engineer II 01/2020 – 01/2022 | Seattle, WA

Uber

- Built mission-critical microservices in **Golang** for Uber Health's patient transportation platform with high reliability requirements, following engineering best practices for safety-critical healthcare systems.
- Designed secure **REST** APIs compliant with HIPAA standards, integrating with EHR systems using **PostgreSQL**.
- Developed backend scheduling and coordination services supporting real-time hospital and transportation workflows.
- Built **Python** ETL pipelines and streaming workflows for operational analytics, providing stakeholders with clear visibility into platform performance.
- Migrated multiple microservices from microrepos to a **Go** monorepo with zero downtime, improving developer collaboration and reducing operational overhead.
- Containerized backend services and deployed to **AWS** with **Jenkins** managed **CI/CD** pipelines to enable rapid, compliant releases.
- Contributed to cross-functional initiatives integrating AI decision-making modules into production systems while maintaining auditability and security standards.

Software Engineer I 05/2017 – 12/2019 | Seattle, WA

Uber

- Built distributed microservices in **Golang** for the Uber Eats order lifecycle using event-driven architecture and message queues, adhering to clean code and best practices across all services.
- Implemented real-time dispatch systems leveraging courier availability and demand signals to drive marketplace growth and operational efficiency.
- Developed backend systems for dynamic pricing, financial reconciliation, and marketplace optimization integrated with **PostgreSQL**.
- Designed **RESTful** APIs supporting partner platforms to manage orders, adjustments, refunds, and operational workflows, working in close communication with external stakeholders throughout.
- Designed **Thrift/Proto** APIs in **Golang** to contextualize automated welcome dialogs for phone callers based on user account status and support history.
- Deployed containerized services using **AWS CloudFormation** to support multi-region scalability.

Software Engineering Intern 05/2016 – 08/2016 | Mountain View, CA

Google

- Built backend modules in **Python** integrating **Google Classroom** with **Google Calendar** services, collaborating closely with the team to implement solutions aligned with the product roadmap.
- Developed responsive user interfaces using **Angular**, ensuring alignment with Google's design language and performance standards.
- Participated in peer code reviews and technical design discussions, collaborating with cross-functional teams in an Agile environment.

Software Engineering Intern 06/2015 – 08/2015 | Los Angeles, CA

Originate

- Improved platform performance by optimizing data schemas and streamlining **RESTful** API endpoints within the Resource Center, successfully reducing page load latency by 15% for internal users, a clean, focused solution that delivered measurable impact.
- Contributed to SaaS architecture discussions with focus on scalable design patterns and innovation in data access strategies.
- Gained exposure to **GCP**, containerization, and streaming data pipelines.

EDUCATION

Bachelor's Degree, Electrical and Computer Engineering 09/2012 – 05/2016 | Pittsburgh, PA

Carnegie Mellon University