Alex Leung

Senior SWE • Experimenter • Investor • Lifelong Student

University of Washington 2014 - 2018
Bachelor of Science in **Computer Science**
with an **Entrepreneurship** minor

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in linkedin.com/in/alex-l-leung

at Flexport
in Bellevue
from Aug 2022
to Present

Tech Lead / Senior Software Engineer

Edge Services TypeScript, Rust, GraphQL, Node.js, Envoy, K8s, AWS CloudMap
- Architected unified API Gateway for Flexport. Lead team of 4 engineers to develop this
- Championed operational excellence on the federated GraphQL team. Reduced client latency by 50%; improved client reliability from three 9s to four 9s.
- Got cross company consensus on new dynamic service discovery standard using AWS CloudMap. This merged three competing standards at the company.
- Brokered convergence of the two major competeing service infra frameworks at the company.

Frontend Infra TypeScript, GraphQL, Next.js, AWS ECS, K8s, Terraform, Datadog
- Architected microfrontends framework for Flexport. Lead team of 7 engineers to create this and successfully collaborated with my EM and skip EM to onboard three separate orgs
- Drove adoption plan of PNPM as a JS dependency manager.
- Lead migration Flow to TypeScript migration (Flexport has 3 million lines of JS)

at Hulu
Remotely
from Sep 2021
to Feb 2022

Tech Lead / Senior Software Engineer

Flex TypeScript, GraphQL, Node.js, Express, Spinnaker
- Lobbied Hulu, Disney clients to adopt our Flex microservice; it vends cross-platform UI as data, allowing generic platform code and rapid experimentation by configuration
- Architected migration of Flex from a RESTful API to GraphQL subgraph for the new company-wide federated GraphQL service created as part of the Hulu, Disney+ unification effort
- Forged partnership w/ similar Disney team. We took over UI as data API, they i18n as a service

at Amazon
in Seattle
from Sep 2017
to Sep 2021

Software Development Engineer II

Fire TV Java, Kotlin, Docker, AWS, DynamoDB
Designed, implemented microservice responsible for ingestion of IMDB movies and shows catalog

Last Mile Identity Java, AWS, Cognito, Coral (RPC), Lambda
- Extended OAuth microservice to support AuthN of various user types
- Maintained role-based AuthZ (RBAC) microservice and guided system redesign

Last Mile Account Management Java, AWS, Coral (RPC), Elasticsearch, React
- Designed and implemented microservices as part of legacy monolith rearchitecture
- Created hybrid web-app views in React

Last Mile Risk and Compliance Java, AWS, Angular, mTLS, Coral (RPC), SQL
- Integrated background check microservice with external vendor REST APIs
- Microservices for in-app facial recognition of package deliverers (en-route ID check)
- Created data warehousing pipelines from AWS Dynamo DB tables to AWS Redshift
- Automated code deployment (CI/CD pipeline building)

Payments Experience Scala, Java, jQuery, SCSS, Coral (RPC)
- Designed and implemented one-time-password verification for payment screens
- Integrated with away teams' authentication services

at Leasera
in Seattle
from Aug 2016
to Sep 2017

Lead Software Engineer

TypeScript, GraphQL, React, React Native, Ruby on Rails, Jenkins, AWS, MySQL
- Built Ruby on Rails ERB / jQuery views then later migrated these to React + GraphQL
- Designed MySQL schema. Optimized DB migrations, SQL transactions, ORM code
- Maintained server infrastructure; configured EC2, Jenkins, Nginx, MySQL, Redis
- Created mobile application using React Native, Redux, and Apollo GraphQL
- Integrated 3rd-party APIs such as Stripe, Zillow, TransUnion, Twilio, Mailgun, etc.
- Lead team in goal planning and managing delivery timelines. Reported sprint progress to CEO

at ThruHealth
in Bellevue
from Aug 2014
to Jun 2016

Junior Software Engineer

PHP, Laravel, Java, SCSS, jQuery, C#, Angular
- Created company marketing website and blog with CSS, jQuery, and PHP
- Constructed web crawlers to pull online health-care data ontologies using C#
- Wrote utilities to parse and normalize HL7 electronic health records using Java
- Created mobile applications using Ionic 1.0

TECHNICAL SKILLS

Maintainability: DRY, Design Patterns, SOLID, Service Oriented Architecture, Majestic Monoliths

Front-End: Next.js, Remix, React, React Native, Vue, Ionic, Angular, jQuery, HTML, SCSS, Tailwind, Webpack, Web Workers

Server-Side: Node.js, Kafka, PostgreSQL, SQLite, Neo4j, Cockroach DB, Redis, DynamoDB, Serverless (ex. AWS Lambda)

Languages: TypeScript, Java, Kotlin, Scala, Rust, Ruby, Solidity, Golang, Python, C#, C, C++, Ruby, PHP, SQL, HCL

Dev Infrastructure: AWS, GCP, Github Actions, Buildkite, ArgoCD, K8s, IaC, CDK, Terraform, Docker, Linux, Envoy, Nginx, Apache, Spinnaker, Backstage

Protocols: gRPC, GraphQL, REST, TLS

Crypto / AuthZN: OAuth2, Asymmetric Key Crypto, Digital Signatures

Web 3: EVM, Solana, Move

Observability: Open Telemetry, Datadog, Grafana, Loki, Sumologic, Prometheus