



Alex Leung

Senior SWE • Experimenter • Investor • Lifelong Student

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

Employment

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

Entrepreneurship

at Space Bums
Remotely
from Jan 2022
to May 2022

Co-Founder, CTO

React, Node.js, TypeScript, Nx, Solana, Rust, GCP, Next.js

- Acted as lead architect, TPM, PM, hiring manager to assemble team of 4 software engineers
- Sold 10,000 space-themed Solana-based NFTs for \$1.5m to over 6,000 customers
- Lead dev team in shipping online web 3 DAO voting NFT staking platform for NFT holders

at ConsiderEat
in Seattle
from May 2017
to Sep 2017

Co-Founder, CEO, CTO

React, React Native, Apollo GraphQL

Co-founded a short-lived start up with college classmates that allows restaurants to sell leftover food for a discount price before closing time using an app.

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TECHNICAL SKILLS

Maintainability:

Functional Programming, DRY, Design Patterns, SOLID, Service Oriented Architecture

Front-End:

React, React Native, Vue, Electron, MobX, Redux, Zustand, 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, Haskell, Python, C#, C, C++, VB, Ruby, PHP, SQL

Dev Infrastructure:

AWS, GCP, Jenkins, Pulumi, K8s, IaC, CDK, Terraform, Docker, Linux, Nginx, Apache, Prometheus, Spinnaker

Protocols:

gRPC, GraphQL, REST, TLS

Crypto / AuthN:

OAuth2, Asymmetric Key Crypto, Digital Signatures

Web 3:

EVM (Solidity), Solana

OPEN SOURCE

- Authored core pub sub utility powering majority of Node.js Apollo GraphQL subscription resolvers [apollographql/graphql-subscriptions/pull/78](https://github.com/apollographql/graphql-subscriptions/pull/78)
- Opened discussion on implementing QUIC (HTTP3) support in Deno [denoland/deno/issues/1558](https://deno.land/deno/issues/1558)
- Created library for typesafe GraphQL clients and schemas without requiring triggered codegen [isomorphic-typescript/ts-isomorphic-gql](https://github.com/alex-leung/isomorphic-typescript/ts-isomorphic-gql)