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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Employment

Tech Lead / Senior Software Engineer

at Hulu
Remotely
from Sep 2021
to Feb 2022

`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 REST to GraphQL subgraph for new the new company-wide federated GraphQL API standard 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

Software Development Engineer II

at Amazon
in Seattle
from Sep 2017
to Sep 2021

`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

Lead Software Engineer

at Leasera
in Seattle
from Aug 2016
to Sep 2017

`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

Junior Software Engineer

at ThruHealth
in Bellevue
from Aug 2014
to Jun 2016

`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

Co-Founder, CTO

at Space Bums
Remotely
from Jan 2022
to May 2022

`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

Co-Founder, CEO, CTO

at ConsiderEat
in Seattle
from May 2017
to Sep 2017

`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.

TECHNICAL SKILLS

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Maintainability:
Functional Programming, DRY,
Design Patterns, SOLID,
Service Oriented Architecture
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```
Front-End:
React, React Native, Vue,
Electron, MobX, Redux,
Zustand, Ionic, Angular,
jQuery, HTML, SCSS, Tailwind,
Webpack, Web Workers
```

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Server-Side:
Node.js, Kafka, PostgreSQL,
SQLite, Neo4j, Cockroach DB,
Redis, DynamoDB,
Serverless (ex. AWS Lambda)
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Languages:
TypeScript, Java, Kotlin,
Scala, Rust, Ruby, Solidity,
Golang, Haskell, Python, C#,
C, C++, VB, Ruby, PHP, SQL
```

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Dev Infrastructure:
AWS, GCP, Jenkins, Pulumi,
K8s, IaC, CDK, Terraform,
Docker, Linux, Nginx, Apache,
Prometheus, Spinnaker
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Protocols:
gRPC, GraphQL, REST, TLS
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Crypto / AuthZN:
OAuth2, Asymmetric Key Crypto,
Digital Signatures
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Web 3:
EVM (Solidity), Solana
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OPEN SOURCE

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