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
- Migrated Flex from REST to GraphQL for new GraphQL amalgamator (Hulu, Disney+ unification)
- 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`

- 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

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

Web 3:
`EVM (Solidity)`, `Solana`

PERSONAL INTERESTS

- Macro Economics
- History
- Finance
- Web 3 / Smart Contracts
- Psychology