

Derick Yang

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EXPERIENCE

Strava

San Francisco, CA

Senior Software Engineer (Metro Server)

September 2021 - Present

- Design and implement novel S3-based caching system storing street traversal data for partner-facing visualizations
- Introduce broad usage of consistent hashing pattern for microservice query architecture
- Automate data pipeline for batch Metro backfills with Argo, K8s, and Spark
- Build and implement server for trip Origins and Destinations product using Thrift, MySQL
- Streamlining OpenStreetMaps update flow, enabling infrastructure impact analysis for urban planners
- Build real-time street alignment ingestion with Kafka and Hudi
- Drive and implement product initiative to incorporate real-time updating bikeshare stations into Strava map layer

Wealthfront

Palo Alto, CA

Senior Software Engineer (Data Engineering)

June 2018 - September 2021

- Led engineering organization transition to Terraform for management of serverless AWS resources
- Built data processing systems for near-real-time classification use cases with AWS Lambda, ECS Fargate, and Kafka
- Designed and built logging for PCI-compliant card infrastructure with Kinesis, Beats, and ELK stack
- Developed and designed data flow to scale data ingestion into Redshift data warehouse
- Implemented monitoring and asynchronous job reporting for Airflow with AWS CloudWatch and Lambda
- Administered and deployed end-to-end test suites for Kafka applications running in ECS and EC2
- Developed data pipelines in Spark for computations in Path financial planning product
- Mentored engineers on data and backend engineering teams on Spark and AWS

The MathWorks

Natick, MA

Software Engineering Intern

May 2017 - August 2017

- Developed web interface to manipulate runtime data in MATLAB, C++, and JavaScript projects

Embark Corporation

New York, NY

Software Engineering Intern

May 2016 - August 2016

- Designed and implemented adaptive scoring algorithm to match prospective students with schools
- Initiated and built end-to-end test suite for Angular web application with Jasmine and Protractor

Tufts University

Medford, MA

Research Assistant

September 2015 - May 2016

- Employed Java Swing toolkit to build GUI for robot action editor

SIDE PROJECTS AND CONTRIBUTIONS

Doer	AWS-hosted GraphQL server for social web app	2021
Tufts Menus & API	Alexa skill to retrieve menus using AWS Lambda and REST web scraping API	2018
Web Coder	Web app for real-time collaborative coding built with Go, Node.js, and MongoDB	2017

SKILLS

Programming Languages Scala, Java, Python, JavaScript, Bash

Databases MySQL, Redshift, DynamoDB, MongoDB, Postgres, Snowflake

Technologies AWS, Thrift, Kafka, Spark, Terraform, Git, Airflow, Docker, ELK, Jenkins, Maven, sbt, Flask, NodeJS, Angular

Language Mandarin Chinese (fluent: speaking, proficient: reading, writing)

EDUCATION

Tufts University

Medford, MA

Bachelor of Science in Computer Science and Mathematics

May 2018

GPA: 3.88 (overall), 3.98 (major)

Dean's list (all semesters), *summa cum laude*