MILES PHAN

milo.phan123@gmail.com | (818)-599-5809

Skills

Languages:
Proficient
Java ● Python ● SQL● TypeScript
Familiar
JavaScript ● Scala ● C/C++ ● HTML5 ● CSS

AWS Technologies:
AWS CDK ● DynamoDB ● SQS ● CloudWatch ● ECS ● EC2 ● Lambda ● S3

Other Technologies
Docker ● Linux ● Git ● MySQL ● Django ● Flask ● Bootstrap ● Node ● NPM ● Jupyter Notebook ● Conda ● Pandas ● Junit ● Gradle

Links

Website

GitHub

LinkedIn

Work Experience

Amazon.com | Alexa Shopping/Software Development Engineer I
August 2021 – Present/Seattle, WA

- Created impactful features in an Alexa marketing campaign platform, enabling non-technical users to launch campaigns within hours without coding effort.
  - Built a multithreaded A/B testing system using the observer design pattern to expedite experimentation, which in one case resulted in 8X increase in purchases.
  - Created a scheduling microservice using producer-consumer architecture, which automated campaign launches and facilitated the platform's first international campaign.
  - Designed a health check process utilizing CloudWatch that disabled underperforming campaigns, which has safeguarded 30+ million customers from poor UXs.
- Coordinated with PMs and partners, reviewed UXs, and worked with BI engineers to launch dozens of marketing campaigns, bringing in > 3M total monthly active users.
- Mentored 2 interns who were offered full-time positions post-internships.
- Drove org-wide cost saving initiatives by reviewing partner teams' service architecture, resulting in ~$475K annual savings.

NASA JPL | Web & Mobile App Development/Software Development Intern
February 2020 – May 2021/Pasadena, CA

- Refactored and redesigned the JPL Education Portal, improving the user experience and modernizing the codebase to a Python/Django/React tech stack.
- Shipped an internal work-on-lab approval app in response to the COVID-19 pandemic.

University of Southern California | Viterbi School of Engineering/Course Producer
August 2019 – May 2020/Los Angeles, CA

- Led labs and hosted office hours about coursework and concepts across multiple classes.
- Managed student final project designs, progress, and final presentations.

Pepperdine University | Information Technology/Application Development Intern
May 2018- August 2018/Malibu, CA

- Developed an Out of Office application that standardized team calendars.
- Upgraded a network emergency handler application reducing response time by 75%.

Education

University of Southern California
Los Angeles, California/Graduated May 2021

- B.S. in Computer Engineering Computer Science.
- 3.86 GPA

Personal Projects

Clip N Ship

- A standalone Python app where users can create categories based on channel emotes and analyze Twitch VOD comments to find and view clip-able moments.
- Trained a machine learning model to classify unlabeled moments using TFIDF

SciOlyScheduler

- A console app built for Yale Science Olympiad that matches proctors to events using a modified Edmond-Karp algorithm that reduced computation time by 90%.

RaspberryPi Security System

- A distributed system that alerts its owner of a trespassing through email and SMS.

Profanity Count Bot

- Reddit bot that analyzes a user's comments/posts and displays the profanities they used.