TERENCE TONG

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Monterey Park, CA
Open to Relocation

Experience

Route – Software Engineer I   *November 2021 – December 2022*

- Maintained and developed an asynchronous publish/subscribe system in **AWS**, **Terraform**, and **Go**: responsible for retrieving package tracking data given a tracking number; the system contained 80+ microservices, each for an individual carrier (e.g. USPS, UPS) which handled up to a peak of 2 million requests per day
- Streamlined an asynchronous 1 day long workflow to 10 minutes by creating an internal **React** application to update a **PostgreSQL** database
- Handled rotating on-call schedules with the responsibilities of responding to system alerts from both **SumoLogic** and **AWS Cloudwatch** and responding to cross-team requests/questions about functionality and feature requests
- Monitored **SumoLogic** dashboards to maintain and troubleshoot our services from unforeseen friction
- Refactored legacy monolith **Go** code base into testable interfaces to allow for automated CI/CD testing and independent auto-scaling to handle large spikes in traffic (i.e. Black Friday)
- Coordinated weekly paired-programming sessions with senior level engineers to learn better programming practices and understand larger architectural team decisions
- Saved the team 2 engineering months by researching the effects of massive system changes that would impact <1% of traffic

Amazon – Software Development Engineer Intern   *June 2020 – September 2020*

- Developed an **AWS Lambda** function that gathered customer information from Audible's API to determine the eligibility of a free promotion, reducing the drop-off rate at the Amazon checkout page
- Designed and implemented a **DynamoDB** schema to document redeemed/sent offers to customers
- Tunneled **API Gateway** traffic through a **VPC**: configured with **CloudFormation**
- Participated in daily scrum meetings that involved the following steps: daily updates, sprint ticket updates, and biweekly retrospectives and planning

NASA JPL – Software Engineering Intern   *June 2019 – August 2019*

- Developed a **cron** job that automated email reminders for an internal awards tool by pulling relevant dates and users from a **PostgreSQL** database
- Cached notifications in a **PostgreSQL** database for record-keeping and accountability
- Improved **PostgreSQL** table structures to use consistent date/time types across a database, solving time zone issues on the frontend
- Migrated and reformatted data using **Django CMS** to streamline future updates to static department websites
- Created, updated, and completed tickets on a **Jira** dashboard during meetings for future planning

Education

Caltech – Simplilearn   *Fall 2023 - Present*
  DevOps Post Graduate [Program](#)
East Los Angeles College   *Fall 2023 - Present*
  Cybersecurity & Cloud Computing Certificate
California Polytechnic State University – San Luis Obispo   *June 2021*
  B.S. Software Engineering & Minor in Psychology

Projects & Skills

Spotify Playlist Classifier | React, Python (scikit-learn, FastAPI) | [Source](#)   *July 2021*

- Developed and documented the creation of a machine learning app that creates a **k-neighbors classifier** model to assign songs to playlists using Spotify's Audio Features API as data points to build the model

Team Liquid Hackathon [2nd Place Overall](#) | React, Python (Django) | [Source](#)   *November 2020*

- Created a fantasy sports league application using the Liquidpedia API to gather various tournament statistics such as teams playing, ongoing games, players playing, and individual scores to build a community leaderboard

Skills: Git, AWS Lambda, AWS SAM, AWS DynamoDB, AWS ECS, React, Terraform, Gitlab, Jenkins, Docker

Eagle Scout | Boy Scouts of America   *Earned October 2016*