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STEVEN TSAY

EDUCATION

COMPUTER SCIENCE | UNIVERSITY OF CALIFORNIA, BERKELEY | CLASS OF 2019 (FALL)

SKILLS

PROGRAMMING LANGUAGES AND FRAMEWORKS:
- Proficient: Java, Python, HTML, CSS, Kubernetes, Golang, C
- Beginner: SQL, Scheme, Django, JavaScript, PHP, OpenCV, Angular, React

TECHNOLOGIES:
- Proficient: AWS(CloudWatch, CloudFormation, Lambdas, DynamoDB, Athena, QuickSight)

EXPERIENCE

SOFTWARE DEVELOPER ENGINEER | AMAZON-SECURE AI FOUNDATIONS(SAIF) | 9.2020 – CURRENT
- Developing secure channels for data transfer and data evaluation to and from native AWS based secure environment designed for handling critical data used by all Alexa ML Engineers.
- Developing infrastructure for data collection and aggregation across various services and packages, presenting them cohesively on QuickSight.
- Improving and maintaining connectivity of secure environment with outside services.

SITE RELIABILITY ENGINEER INTERN | RED HAT | 6.2019 – 8.2019
- Helped provide compatibility between Red Hat's metering software using Hadoop, Presto, and Hive with online storage options like Amazon AWS, Microsoft Azure Blob storage, Google Cloud Platform as well custom AWS supporting storages through Kubernetes, configured with Ansible and Helm.

SOFTWARE ENGINEER INTERN | BITMAIN | 6.2018 – 8.2018
- Developed a system of web crawlers for the AI team, providing various training data.
- Used various technologies such as OpenCV for preliminary face detection screening, Chinese NER for labeling pictures scraped from news sites, and Docker for ease of deployment.
- Developed an easily scalable system through syncing download processes with a local database, with a peak download speed of 40,000 pictures/hr with 5 instances running.

DEVELOPER | CODEBASE | 1.2018 – PRESENT
- Developed software for bay area companies and fast-growth startups (projects listed below).

DEVELOPER | POLITICAL COMPUTER SCIENCE AT BERKELEY (PCS) | 8.2017 – 8.2018
- Developed software to identify and address certain political issues (projects listed below).

PROJECTS

BILL.COM (CODEBASE) | TEAM PROJECT | 9.2019 – 12.2019
- Worked with Bill.com to revamp their bill pay portal for customers to pay and manage bills, payments, and accounts.

ATLASSIAN (CODEBASE) | TEAM PROJECT | 2.2019 – 5.2019
- Worked with Atlassian engineers to add the token bucket rate-limiting algorithm to the public Lyft Rate Limiting Repo in Golang.
- Touched various technologies like Protoc for custom sterilized format, Reddis for fast local storage, as well as GRPC calls for the live demo.

ZYMERGEN (CODEBASE) | TEAM PROJECT | 9.2018 – 12.2018
- Developed a full-stack application for Zymergen, which creates Json files from DNA Specification objects and visually displaying them in the application by using technologies like Heroku, React.js, and PostgreSQL.

CODEDOOR (CODEBASE) | TEAM PROJECT | 2.2018 – 5.2018
- Internal internship/job search application for Codebase.
- Developed with HTML, CSS, JavaScript, and Django.
- Implemented front-end and back-end for company reviews and company information.

CAMPAIGN FINANCE (PCS) | INDIVIDUAL PROJECT | 8.2017 - 11.2017
- Used Pandas, NumPy, and various other Python packages to parse through bulk data from NGOs, stitched various tables and calculated small individual donations against Govtrack's candidate ideology score.