FROILAN JOFEL
GREPO

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EDUCATION

2018 – 2020
Bachelor of Science Computer Science University of California San Diego
Chancellor's Associate Scholar, Winter & Spring 2020 Provost Honors

2016 – 2018
Associate Degree in Computer Science for Transfer Southwestern College
Spring 2016 Vice Governor's List 3.8+ GPA

EXPERIENCE

2019 – 2020
Co-founder/Developer, Mathly, San Diego CA
- It's a study tool designed to encourage students K-12 to practice their Math skills, in return of their parents rewarding them with allowance.
- Worked on the client side/mobile application. Implemented sign in/authentication with AWS Amplify. Client allows users to scan homework, and convert image to base64 encoding, then sends data to backend (AWS & MATHPIX) using an API POST request.
- Technologies: Android Studio, Java, Amazon Web Service Amplify, Retrofit 2, GitHub

PROJECTS

Fall 2020
SurfStore
- A networked file storage application that is based on Dropbox, and lets you sync files to and from the "cloud".
- Technologies: Go, Github

DynamoDB
- A distributed key-value store based on Amazon's DynamoDB. Implements a gossip-based replication/configurable quorum-type system for reads and writes.
- Technologies: Go, Github

Summer 2020
Covid Risk Detector
- This project utilizes the Python library, Scrapy, to deploy spiders and scrape a website that contains COVID 19 daily statistics
- The scraped data is manipulated to evaluate a risk report.
- Technologies: Python, Scrapy, Tkinter, Docker, GitHub

Spring 2020
Walk Walk Revolution
- WWR has an activity tracker that records daily steps, miles, and other physical fitness activities to provide a scope of the users' daily fitness progress
- Applied agile software development, which included two major milestones, each composing of two iterations.
- Practiced User Stories, BDD Scenarios, and applied Basic Object-Oriented Design, SRP, Dependency Injection, and Design by contract.
- Design Pattern: Strategy, Adapter, Observer, MVP, Factory Method, Builder
- Technologies: Java, Android Studio, Google Fit API, Firebase Test Lab, FireStore, JUNIT, Espresso, Roboelectric, Cucumber, Zenhub, TravisCI, CircleCI, GitHub

Fall 2019
Huffman Encoding
- Implemented a Huffman Coding Tree for true compressions using efficient Header.

Six Degrees of Kevin Bacon
- Implemented a graph that represents social networks of movie actors/actresses.
- Used an algorithm which determines shortest path of actor's collaboration

TECHNICAL SKILLS

Languages   C++, Java, Python, Haskell, HTML, CSS, Go
Frameworks   AWS, Firebase, Docker, Git, Unix/Linux, Android