Phuong Pham

Los Angeles, California, 90007 | 213-551-4312 | alassycottery@gmail.com | GitHub: https://github.com/PhuongPham7112 | LinkedIn: https://www.linkedin.com/in/phuong-pham-b29273141/

EDUCATIONS

University of Southern California – BS Computer Science (Games)/Game Animation Minor (Graduation: 5/2024)– GPA: 3.80

Relevant coursework: Data Structure and Object-Oriented Design, Principles of Software Development

TECHNICAL SKILLS

- Programming Languages: C, C++, C#, Python, Java, JavaScript, TypeScript
- Front-end frameworks: ReactJS, NextJS, HTML, CSS, SQL
- Back-end frameworks and databases: Flask, node.js, ExpressJS, Spring Boot, Spring Batch

INTERNSHIP EXPERIENCE

Software Engineer Intern, Tax Engineering, Engineering Division

Goldman Sachs, Salt Lake City, Utah 06/2023 – 08/2023

- Developed a multithreaded and generic API service in Spring Boot that parses CSV files, dynamically validates information based on Json subtyping and Hibernate validator, and generates files to be uploaded to Sybase IQ for form generation.
- Created a frontend workflow for users to set parameters and upload CSV files to the service from ReactJS, TypeScript, and Axios.
- Measured correctness, efficiency, and performance through JMeter load testing and Junit unit testing, with the server being optimized to handle over a million records for each call.

Goldman Sachs, Salt Lake City, Utah 06/2022 – 08/2022

- Used Spring Batch to write a batch job that automatically extracts tax data from one database to another database.
- Updated the different stages of reportable tax accounts based on a given tax year through a pipeline of Spring Batch steps, which helps users catch accounts exceptions and the firm avoid legal charges and fines from missing tax accounts.
- Created SQL queries for insights about overall tax accounts' statuses, designed tables to organize and store necessary information of clients' tax.
- Set up Junit test cases for each component of a Spring Batch job such as Readers, Writers, and Tasklets.

Back-end Developer Intern 07/2021 – 10/2021

Codeday Labs, Virtual: *A summer intern program where college students work with a mentor to build an application together.*

- Learned full-stack development (AWS, React, Distributed system, backend, frontend) under the guidance of a mentor at Codeday Labs to simulate a flexible graphical programming library enabling users to visually construct scientific workflows.
- Worked on the back-end of the project through Flask framework: building data models, creating database with SQLite3, programming topological sorting algorithm for directed acyclic graph, creating tasks queue, and containerizing the app with Docker.
- GitHub: https://github.com/codeday-labs/Distributed_Nodeworks

Front-end Web Developer 10/2020 – 06/2021

Pod co, Los Angeles: *A start up audio social media app by a group of students from USC and Tufts.*

- Learned and worked with ReactJS framework to create essential components like audio player, library page, notification page, and the landing page. Used Figma and Adobe Illustrator to come up with the website's layout, color scheme.
- Deployment: https://reverent-knuth-8902fd.netlify.app/

ACADEMIC/PERSONAL PROJECTS

Student Research Assistant 10/2022 – 05/2023

Signal Transformation, Analysis and Compression (STAC) Lab, USC

- Collected and annotated video datapoints for sampling dog's joints in motion by using DeepLabCut.
- Researched canine movements and designed different skeletal configurations based on the dog's gait to highlight their strongest distinguishing features, thus categorizing gaits by skeletal data.
- Analyzed and visualized movement data with MATLAB to gain insights into the mechanism behind a gait's effect on signal frequencies of certain body parts, which would help detect health abnormalities in dogs.

Back-end Developer 03/2022

AccesSC: A mobile application that displays accessible locations like entrances, elevators, and restrooms for the disabled.

- Developed a REST API with node.js, Express, and AWS Relational Database (in MySQL) to communicate the data with the mobile front-end, utilized Google geocoding API to translate addresses into coordinates.
- Won Athena Hacks (run by USC students) in Athena's favorite project category.
- GitHub: https://github.com/PhuongPham7112/accessible-app-2022

Full-stack Web Developer, Plain Language Initiative 10/2021 – 06/2022

USC School of Pharmacy, Los Angeles

- Collaborated with a Master student to build a website that helps researchers linguistically simplify their work so that anyone can understand academic resources.
- Worked on the front-end of the website in React JS, using JavaScript and CSS and the back-end with MySQL, Nodejs, and Express.
- Presented the demo of the project monthly in front of pharmaceutical faculties from USC School of Pharmacy.
- Was chosen as one of the projects to be presented at the Translation Science Conference 2022 in Chicago.