Mostafa Kamal
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EDUCATION

University of Massachusetts Amherst

B.S. Computer Science, Minor in Business, GPA 3.47   Year of Graduation: May 2023

Coursework: Data Structures & Algorithms, Software Entrepreneurship, Theory and Practice of Software Engineering, Computer Networks, Discrete Mathematics, Digital Forensics, Search Engine

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, Ruby, C#, HTML, CSS

Technologies/Frameworks: Spring, Flask, React, React Native, Node.js, Next.js, MySQL, DynamoDB, JPA, GraphQL, Git

EXPERIENCE

ScaleAI | AI Trainer   February 2024 - Present
- Developed complex SQL prompts for accurate model responses, addressing any failures by refining or rewriting model responses
- Addressed challenges such as multi-table joins, nested subqueries, and complex aggregations to extract relevant information
- Crafted prompts covering topics from data structure to machine learning to detect flaws in the model responses 93.58% of the time
- Provided coder instructions to the model for an advanced data-science project to guide the LLM to a correct output
- Collaborated with other reviewers to review other attempters' tasks to validate and rate for best quality tasks

Stealth Startup | Software Engineer   January 2024 - Present
- Led the development of a dynamic web app, incorporating animations and forms with React.js, while utilizing Node.js and Firebase database to store user data efficiently
- Developed a dynamic feed integrating with the Node.js backend for showcasing users' posts
- Leveraged OpenAI and Google Places API to generate location suggestions in Python, tailoring them to user inputs and behaviors reducing average search time by 70%
- Implemented user authentication and authorization mechanism along with two-factor authentication to secure the application
- Worked collaboratively with other developers to help with overall system and database design

PROJECTS

Full-Stack Elevation-Based Navigation System   February 2023 - May 2023

Implemented a navigation system that utilizes elevation information, allowing for diverse types of elevation inputs
- Created a full-scale web app featuring a client-side react app integrated with the OpenStreetMap API and powered by a Flask backend
- Utilized A* and Dijkstra to find the shortest path and desired elevation
- Compared runtimes, along with osmnx shortest path function, for consistency in evaluation metrics
- Conducted integration and unit tests to verify app readiness for deployment

Full-Stack Chat App   May 2022 - November 2022

Developed a dynamic chat app with React and Spring Boot, supporting private and group chats
- Employed MVC design pattern in developing REST API for managing CRUD operations in the database and used JPA for executing SQL queries
- Encrypted and secured the messages sent between users via Spring security modules and created authentication services using JWT
- Used Websockets to handle dynamic browser and server communication for instant messages
- Built the application end-to-end, including client-side React application, backend Java Spring Boot application, and DevOps for building the app using the Maven plugin

CERTIFICATIONS

Machine Learning Specialization by Andrew Ng