Muhammad Haris

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Education

University of Alberta - *Bachelor of Computing Science with Mathematics Minor*   May 2023

Experience

Junior Software Developer   Remote
Areto Labs   Jan 2021 – June 2021

- Developed and implemented a monthly subscription service for a Slack application using GCP, Stripe API, Python, and JavaScript, leading to significant projected sales growth.
- Demonstrated public speaking expertise by live presenting the Slack app to the marketing team, leading to the app's successful launch.
- Organized and led team meetings, effectively delegating tasks, and scheduling hackathons to meet ongoing responsibilities and set new goals.

Projects

Whisper   April 2023 – Present
React, Node.js, Express, Socket.IO, PostgreSQL, JWT, Jest

- Developed a real-time chat application, Whisper, allowing users to engage in private/group chats, send images/videos, and receive notifications.
- Implemented secure user authentication and registration, ensuring robust access control.
- Established comprehensive testing using Jest to ensure application reliability and maintainability, enhancing the overall quality of the platform.

SocialDistribution   Oct 2022 – Dec 2022
Python, JavaScript, HTML, CSS, Django

- Built a user-friendly blogging/social network platform similar to Twitter using the Django framework, integrating external sources such as GitHub with a focus on interconnectivity and peer-to-peer functionality.
- Developed a system for distributing and sharing posts and content, allowing authors on one server to aggregate the posts of their friends on other servers using an inbox model like Activity Pub but with simpler functionality.
- Implemented features for different types of posts, such as public, friends-only, and private posts, as well as likes, comments, and private messages, to be sent and processed at the inbox of the receiving authors by the node.

NoteMate   May 2023
Golang, Terraform, Kubernates, Docker,

- Constructed a lightweight and efficient note-taking API using Golang, capitalizing on its performance and concurrency advantages.
- Deployed and managed the API using Kubernetes and Terraform, streamlining container orchestration, scaling, and infrastructure provisioning.
- Implemented an in-memory data store using Go maps for efficient note storage, eliminating the need for complex database systems while maintaining functionality.

CrowdFly   Feb 2021 – April 2021
Java, Android Studio, Firebase

- Developed a collaborative experimentation app on Android, enabling users to create, share, and contribute to experiments with features like QR codes and location tracking.
- Incorporated real-time questions and discussion sections under each experiment, fostering user engagement and knowledge sharing.
- Implemented robust experiment statistics and analysis, providing users with valuable insights, and ensuring data-driven decision-making.

Technical Skills

- Python, Java, C++, C#, C, CSS, HTML, JavaScript, SQL, Unity, Django, React, Node.js, Express, Socket.IO, Stripe API, Flask, GCP
- Docker, GitHub Actions, JWT, Firebase, Jest, PostgreSQL