

Syed Talha Ali

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SKILLS

Programming : Python, Java, Go, JavaScript, TypeScript, C, C++, C#, HTML, CSS, SQL, Racket, Haskell, Scala

Full Stack : React, ASP.NET Core, Django, Flask, gRPC, GraphQL, jQuery, Framer Motion, Material UI

Technology : Docker, Git/Github, AWS, Memcached, Redis, DynamoDB, GitLab CI/CD, Kubernetes clusters

Soft Skills : Self-motivated, Collaborative, Growth mindset, Excellent communication and Interpersonal skills

EXPERIENCE (16 months+)

Wish

May. 2022 – Sep. 2023

Software Engineer Intern - Payments, Performance Team

Toronto, ON

- Developed a robust security system **to detect and prevent suspicious and fraudulent activities, safeguarding against payment theft**
- Built internal developer tools for Merchant Payments team **reducing engineering effort by 15+ hours a month**
- Migrated legacy **REST API** to **GraphQL API** to provide better maintainability and performance **for 2m+ merchants**
- Implemented **alerting and monitoring systems** to monitor system correctness, error rate and latency using **Prometheus** and **Grafana**
- Built a **microservice** to power Wish's new Merchant Performance dashboard
 - Applied repository pattern to microservice using **Golang** to minimize scattering and duplication of query code
 - Constructed **GraphQL API** to help data flow through microservice and UI providing another layer of abstraction
 - Integrated **unit testing** into **Golang** codebase to ensure code quality and reliability
 - Implemented **Gitlab's CI/CD pipeline** status checks on Github repository to ensure the safety and reliability of code changes
- Designed **data pipelines** to support faster and efficient payment data analysis using **Apache Airflow**
- Constructed an automated system to detect employee team changes and promptly revoke permissions for the previous team, **enhancing data security and access control seamlessly**
- Collaborated with relevant stakeholders to create/improve features for Wish's merchant website using **JavaScript, TypeScript, React, Python, Django, and MongoDB** overall decreasing technical issues and improving user experience **for 2m+ merchants**

EDUCATION

University of Toronto

Aug. 2019 – Apr. 2024

B.S. in Computer Science (BSc) and Minor in Math

5th Year

- CGPA**: 3.66 on a 4.0 Scale
- Coursework (Computer Science)**: Object Oriented Design, Data Structures, Algorithm Design, Problem Solving, Complexity Analysis, Software Design, Operating Systems, Databases, Web development, Information Security
- Coursework (Math)**: Calculus, Linear Algebra, Statistics and Probability, Mathematical Proofs, Combinatorics

PROJECTS

Buddies - Google Developer Students Club

github.com/GDSCUTM-CommunityProjects/Buddies

- Led a fast paced team of 4 members in developing a web app that serves as a funneling station for people to come and look for reliable group partners
- Backend: **ASP.NET Core (C#), Entity Framework Core (ORM), PostgreSQL**
- Frontend: **TypeScript, ESLint (Airbnb Preset), React (Next.js), Material UI, Axios**
- Implemented core features such as user profile, recommendation system, leaderboard, and project dashboard
- Created a **recommendation system** to suggest users for a project using **Matrix Factorization and KNN algorithm**

YouTube

Aug. 2019 – Aug. 2020

Creator (@InternetReacts)

- Grew channel through social media and sponsorships to **3000 subscribers in 1.5 years**
- Created **20+ data visualizations** with a partner on sports statistics using **Python, JavaScript, React, and Framer Motion** accumulating **2.5M total video views**
- Featured on the pages of world-renowned brands like SPORTbible, SPORF, and GiveMeSport**
- Highlights**: Goal Comparison By Age, Player Performance Comparison in UEFA's Top 5 Leagues, Messi vs Ronaldo