

# 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, Humble, Excellent communication and Interpersonal skills

## EXPERIENCE

### Wish

May. 2022 – Sep. 2023

#### Software Engineer Intern

Toronto, ON

- Developed a robust security system **to detect and prevent suspicious and fraudulent activities, safeguarding against payment theft**
- Built internal developer tools for Marketplace Payments team **reducing engineering effort by 15+ hours a month**
- Refactored pages that previously used a legacy **REST API** back-end to a **GraphQL** back-end overall providing better maintainability and performance **for 2m+ merchants**
- Refactored UI pages that previously used legacy **Backbone.js** components to **React.js** overall decreasing technical issues and improving user experience **for 2m+ merchants**
- Implemented alerting and monitoring systems to monitor overall system health and identify areas for improvement using **Grafana**
- Constructed a microservice to power Wish's WSS stats pages
  - \* 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, applying **software testing principles** to ensure the safety and reliability of code changes
- Collaborated with relevant stakeholders to create/improve features for Wish's merchant website using **JavaScript, REST API's, React, Python, Django, and MongoDB**

## EDUCATION

### University of Toronto

Aug. 2019 – Apr. 2024

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

5th Year

- **CGPA**: 3.65 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](https://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 and complex features such as user profile, recommendation system, leaderboard, and project dashboard
- Created a **recommendation system** to suggest users for a users project using **Matrix Factorization and KNN algorithms**

### 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 Performace Comparison in UEFA's Top 5 Leagues](#), [Messi vs Ronaldo](#)