

# Syed Talha Ali

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## SKILLS

**Languages :** Python, Java, Go, JavaScript, TypeScript, C, C#, HTML, CSS, SQL, Racket, Haskell, MIPS Assembly

**Libraries & Frameworks :** React, ASP.NET Core, Django, gRPC, GraphQL, Numpy, Material UI

**IDEs & Tools :** Visual Studio, Pycharm, Docker, Eclipse, VirtualBox, GitLab CI/CD

**Version Control :** Git

## EDUCATION AND AWARDS

### University of Toronto

Aug. 2019 – May 2024

*Computer Science Specialist and Minor in Mathematical Sciences*

4th Year

- **CGPA:** 3.61 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, AI
- **Coursework (Math):** Calculus, Linear Algebra, Statistics and Probability, Mathematical Proofs, Combinatorics

### Awards

#### Scholarships

- **UTM Entrance Award:** \$3,000
- **University Of Toronto Scholar :** \$7,500
- **Dean's List :** Top 15% of all students

## EXPERIENCE

### Wish

May. 2022 – Present

#### Software Engineer Intern

- Collaborated with relevant stakeholders to create/improve features for Wish's merchant website using **JavaScript, TypeScript, React, Python, Django and MongoDB**
- Refactored merchant performance pages that previously used a legacy **REST API** back-end to a **GraphQL** back-end overall decreasing technical issues and improving user experience
- Built internal developer tools for Marketplace Payments team reducing engineering effort by a significant amount
- Currently working on launching a micro-service using **Go, gRPC and GraphQL**

## PROJECTS

### Buddies - Google Developer Students Club

[github.com/GDSCUTM-CommunityProjects/Buddies](https://github.com/GDSCUTM-CommunityProjects/Buddies)

- Worked in a fast-paced environment (4 members) to create 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 recommend users for a user's project through **Matrix Factorization and KNN algorithm**

### YouTube

Aug. 2019 – Present

#### 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** libraries such as Plotly and Bar-chart-race **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](#)

## Self Learning Drawing Bot Game

[github.com/stalhaali/SelfLearningDrawingBot](https://github.com/stalhaali/SelfLearningDrawingBot)

- Trained a machine learning model in **Python using Scikit-learn's** KNeighborsClassifier; **achieved a 90%** test accuracy on drawings
- Implemented a web app by using **Flask** as the back-end and used **HTML, CSS and JavaScript** to create the front-end
- Processed the images sent from the front-end into a form readable by the trained model, using **Computer Vision/OpenCV**

## EXTRACURRICULAR

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### Canadian Ultrasound Institute and Research Centre

Aug. 2017 – 2019

#### *Volunteer*

- Taught new immigrants the basics of **Microsoft Office software (Excel, Word and Powerpoint)**, gaining over **100+ volunteer hours**