

# Talha Aamir

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## EXPERIENCE

### Ricult - Full Stack Software Engineer

1. Worked with RnD to develop an entire **analytics feature** built on **google maps** using **AngularJS**, that can handle clustering and rendering **2 million + farms all across Thailand and Pakistan**, generating more than **\$500,000** in company revenue.
2. **Optimised** a key api endpoint in **Flask (Python)** by **90%** to scale from **1000 farms to 2 million+ farms**.
3. Developed a **general scripting language** on top of **python**, to allow the entire ricult team to send **push notifications** to **~200,000** devices.
4. Took initiative to set up a documentation library (ts-doc) to **reduce developer friction** and **increase productivity**.
5. Project Lead and Core maintainer of backend test framework in **Python** using **Pytest**
  - **Enabled faster rollouts** and led to a **2x speedup in feature release times**.
  - Setup DB isolation for test suites using **sqlite**.
  - Setup Code Coverage reports using **coverage** and **py-cov**
  - Setup monitoring of slowest server endpoints to allow the team to **improve application response times** by **70%**.
  - Setup **Load Testing** using **Locust**.
6. Project Lead and Core Maintainer of the CI/CD Pipeline using **Gitlab-CI** and **Docker**
  - Setup a **CI/CD pipeline runner** using **AWS EC2**, and **Docker**
  - Setup the pipeline instructions file to execute tests and deploy to all relevant environments.
  - Helped **speed up rollout times** by **40%**, and reduced production errors by **60%**.
7. **Identified** a key issue with the in house fetch library written in **AngularJs**, and undertook the project of rewriting the entire library, resulting in an implementation that **improved response times** by **50%**.
8. **Took initiative** to shift the entire codebase to use **Typescript best practices** resulting in **increased code visibility** and **reduced development times** for newer features.

## PROJECTS

### ReadSync

1. A **React** based web app with **expressjs** as the backend, and using **postgresql**. The web app also uses Mozillas' **pdfJS** library to serve as an online pdf reader that keeps user progress synced across all platforms.

## SKILLS

**Languages** HTML, CSS, Typescript, Javascript, Python, SQL, C++

**Frameworks** React, React Native, Angular, Flask, Ionic

**Libraries** Cypress, Pytest

**Tools** Git, Bash, ssh, Linux, Gitlab CI, Docker, AWS, Heroku, Memcached

## EDUCATION

**LUMS - Senior Year**  
GPA: 3.01

## IMPORTANT COURSES

Distributed Systems, Software Engineering, Data Structures, HCI, Program Analysis, Advanced Programming