

# 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**, 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 **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 to **reduce developer friction** and **increase productivity**.
5. Developer and **sole maintainer** of backend test framework in **Python** using **Pytest**:
  - a) **Enabled faster rollouts** and led to a **2x speedup in feature release times**.
  - b) Setup DB isolation for test suites using **sqlite**.
  - c) Setup Code Coverage reports using **coverage** and **py-cov**
  - d) Setup monitoring of slowest server endpoints to allow the team to **improve application response times by 70%**.
6. **Identified** a key issue with the in house fetch library, and undertook the project of rewriting the entire library, resulting in an implementation that **improved response times by 50%**.
7. **Took initiative** to shift the entire codebase to use **Typescript best practices** resulting in **increased code visibility** and **reduced** development times for new features.

### LastingSales - Front-end Software Engineer

1. Developed an inventory management system using **React** and **Material UI**.
2. Handled state-management using **Redux**
3. Implemented **responsive design** using **css grid** and setup mobile view following **UI best practices**.
4. Setup front-end tests using **cypress** and reduced bugs in production by **60%**.

## PROJECTS

### Software Engineering

- **Storytelling app for the Hearing Impaired**
  1. Lead the designing and developing of a solution for the hearing impaired community's isolation in Pakistan. A project for the Human Computer Interaction course.
  2. Produced a hi-fi prototype in **Adobe XD**, that followed **UI Design Principles**.
  3. Developed the final android application in **Unity**, that successfully emulated sign recognition.
  4. Performed prototype testing for the final product, and found a **~70% improvement** in communication.

## SKILLS

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

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

**Libraries** Cypress, Pytest

**Tools** Git, Bash, ssh, Linux

## EDUCATION

**LUMS - Senior Year**  
GPA: 3.01

## IMPORTANT COURSES

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