# Ammar Tahir

Full-stack Developer with 3+ years of experience - Aiming to build scalable, fault-tolerant, and robust solutions for innovative ideas

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**Portfolio**

## WORK EXPERIENCE

### Kaleidoscope, Bay Area, CA— *Software Engineer II (Remote)*

November 2020 - PRESENT

I'm part of a highly paced development team at Kaleidoscope where we are building state-of-art visualizations for Application Process Management (APM). I led the effort of improving the user experience of Graph visualizations, previously, we were only able to show 100s of entities in a graph, but I integrated a rendering technique using which we were able to show 10,000s entities in the Graph which has increased the user experience exponentially. Moreover, my responsibilities in the team are to brainstorm, do R&D, develop new features and integrate them into the platform.

### Freelancer, Pakistan— *Full Stack Developer*

April 2017 - August 2020

As a freelancer, I have worked on many small level projects including mobile apps and modern websites. I worked on my own which provided me the opportunity to self-learn technologies like React, React Native, Elixir, ThreeJS, etc. I worked with a client based in the Netherlands and built different projects for him which includes a WordPress site, a React Native mobile app and a modern static Company Portfolio website.

## EDUCATION

### National University of Computer & Emerging Sciences, Lahore, Pakistan — *Bachelors of Computer Science*

August 2017 - September 2021

I have graduated as a Computer Scientist with 3.20/4.00 CGPA. During summer and winter breaks, instead of doing internships, I focused on learning a new technology stack or programming language. To fully grasp the ins and outs of a specific technology, I tried to build a project from scratch, that's how I have learned different technologies in such a short time period.

## PROGRAMMING LANGUAGES

C, C++, Java, JavaScript, Python, Golang, Elixir, C#, Gremlin, SQL, Typescript, HTML, CSS, GraphQL

## TECHNOLOGY STACKS

MERN, ASP.NET, Flask, Phoenix

## DATABASES

MongoDB, JanusGraph, Cassandra, ScyllaDB, TimescaleDB, Postgres, MySQL, SQLite, SQL Server, Redis

## ORCHESTRATION & MONITORING TOOLS

Docker, Kubernetes, Grafana, Prometheus, Opsgenie, Alertmanager, Promscale

## LIBRARIES & FRAMEWORKS

ReactJS, Redux, ReactNative, MaterialUI, Bootstrap, NextJS, SASS, Jest, msw, Elastic Search

**Government College University,** Lahore, Pakistan— *Faculty of Science in Pre-Engineering*

September 2015 - July 2017

I passed out of college with 1002/1100 marks.

**Cantt Public High School,** Lahore, Pakistan— *Matriculation*

September 2015 - July 2017

I passed out of school with 1049/1100 marks.

## PROJECTS

### Source Free Domain Adaptation for Semantic Preprocessing — *(SemiEval 2021 Task 10)*

As a final year project, I chose Natural Language Processing and decided to compete globally for the open research problems on SemiEval. I led the research and development of the project. After doing a thorough literature review, I integrated a technique called Pseudo-labeling into our project. Due to that technique, the results improved from the baseline. I along with my team members stood 5th on the Global Leaderboard. This project was also nominated by the Director of my university for the Best Final Project of the Year.

### Essentials— *(Microsoft Imagine Cup 2020)*

I participated in Microsoft Imagine Cup 2020 in which I led my team and we built an e-commerce platform for selling cosmetically old but perfectly edible food to reduce the food wastage in the environment. We trained a ResNet50 model for distinguishing between fresh and rotten fruits, and integrated Google Maps to provide the exact location of sellers like Uber, Careem. We trained the neural model on 150,000 images and achieved 96.87% accuracy which played a key role in winning Regional Finals after competing with over 800 teams from all around Pakistan.

### Pagebook— *(Academic Project)*

For the final project of Web Programming, I decided to build a real-time document editor like Google Docs where different users can edit and collaborate in real-time. I built a WYSIWYG editor UI in ReactJS and for the backend, I opted for ExpressJS. To enable real-time functionalities, I used SocketIO, which allowed the users to edit the documents in real-time. I also got bonus marks for using the latest technologies like ReactJS, SocketIO and Express for the project.

## MACHINE LEARNING LIBRARIES

OpenCV, PyTorch, TensorFlow,Pandas, Keras MATLAB, ThreeJS, GSAP

## TOOLSET

Git, Github, Gitlab, VSCode, Adobe XD, Figma, Visual Studio, WordPress

## CLOUD PLATFORMS

Amazon Web Services, Microsoft Azure

## AWARDS & ACTIVITIES

**Microsoft Imagine Cup 2020 Regional Winners**

**5th in Semieval 2021, (Task 10)**

**Head of Automation, SOFTEC 2021**

**Hash Code 2019 Participant**

**Head of Core Team, Google DSC'19**

## SOFT SKILLS

Leadership, Creativity, Communication Skills, Teamwork

## LANGUAGES

English, Urdu, French

## SPORTS

Cricket, Gym, Esports