

# Adil Asad

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## Summary

- Skilled software engineer with a solid foundation in computer science, proficient in various programming languages and experienced in developing scalable and robust web applications using the MERN stack.
- I am a Penn State University computer science graduate student, characterized by a relentless pursuit of excellence, thriving on challenges, and demonstrating a commitment to continuous learning and skills enhancement.
- Adept in collaborative development, maintaining high code quality, and optimizing performance, with a focus on delivering user-centric solutions that contribute to technological innovation and business growth.

## Education

### Master of Science in Computer Science

Pennsylvania State University, PA

Aug 2022 – May 2024

GPA: 3.2

### Bachelor of Science in Computer Science

Forman Christian College, Lahore, Pakistan

Jan 2018 – Dec 2021

GPA: 3.6

## Experience

### Full Stack Software Engineer

Mar 2022 – Jul 2022

Trimulabs, Lahore, Pakistan

- Developed various dynamic web applications using the MERN stack, focusing on scalability, performance, and responsiveness.
- Engaged in cross-functional collaboration for feature conceptualization and refinement, incorporating Agile methodologies and Scrum frameworks. Actively participated in sprint planning, daily stand-ups, and retrospective meetings to enhance team efficiency.

## Projects

### Facial Attribute Editing in Videos Using GANs

- Developed an application to edit facial attributes in videos using Generative Adversarial Networks in Python.

### Stable and robust saliency maps generation for explainable AI models

- Developed a novel approach to improve the stability and robustness of saliency maps used in explainable AI models.

### Sales Forecasting Using External Indicators

- Created a sales prediction model for TE AI Cup, using historical sales data coupled with external indicators.

### Diabetic Retinopathy Classification Using Graph Neural Networks

- Developed a classification model for fundus images to categorize Diabetic Retinopathy stages using GNNs.

### Attendance Tracker Mobile Application

- Mobile application to track the attendance of students in different classes and produce reports.

### 2D Platformer Game

- A recreation of a classic platformer game with 3 different game modes and 10 levels in the story mode with variable difficulty settings.

## Skills

**Programming Languages:** Python (Pandas, scikit-learn, NumPy, TensorFlow, Pytorch), C++, Java, C, JavaScript, VB, .NET

**Web:** HTML, CSS, WordPress, Node.js, React, Angular, Express, Typescript, GraphQL, Django, Flask

**Database:** SQL, MySQL, MongoDB

**Tools and Platforms:** Visual Studio Code, MSSQL Workbench, Anaconda, Android Studio, Windows, Linux, Git, Jira,

**Visualization Tools:** Tableau, Power BI, Matplotlib, Excel

**Mobile:** Android, React Native, Swift, Flutter

## Awards

- Cum Laude, Forman Christian College University (FCCU)
- Vice Rector's List, Forman Christian College University (FCCU)

Jun 2022

May 2020, May 2021

## Certifications

- Implement High Fidelity Designs with Material-UI and ReactJS, Udemy
- The Complete React Developer Course (w/ Hooks and Redux), Udemy

Mar 2022

Mar 2022

## Leadership and Involvement

- Director of Logistics, IEEE FCCU

Sep 2020 - Jun 2021