

MOHAMMAD AHMAD

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EDUCATION

GHULAM ISHAQ KHAN INSTITUTE

Bachelor of Science in Engineering | CGPA: 3.40/4.

Topi, Pakistan

2018 - 2022

EXPERIENCE

CARBONTEQ

Lahore, Pakistan

Senior Software Engineer

June 2022 - Present

- **First Class Healthcare:** Developed an electronic medical record application for prison healthcare systems using React, Webpack Express, and Nodejs. The application serves 2 jails with up to 2,000 inmates, reducing data retrieval time by 145% and providing secure encrypted data storage. Integrating new features such as stopwatch and payment processors on this continuously expanding application.
- **Drive Thru Urgent Care:** Engineered a healthcare application using Next.js and Nodejs, catering to 15 - 45 patients daily for laboratory testing, diagnostics, and clinical checkups. Incorporated design changes from Figma via tokens. Programmed features include results management, registration, socket messaging, and Stripe API
- **Prospecting Tool:** Launched a sales lead application using React and TypeScript, Express, and Selenium that scrapes up to 1,000 job openings daily. Reduced training time on the software by 45% and improved the page speed index by 20 points
- **Carbonteq.com:** Created a responsive portfolio website for the company using WebFlow. Integrated Jazz HR API into the website, increasing the applicant numbers for jobs by 500 since the website deployment

USPCASE, NUST

Islamabad, Pakistan

Internship

June 2021 - October 2021

- Researched aluminium-doped Zinc Oxide thin film for Transparent Conducting Oxide. Enhanced transmittance by 90% of aluminum-doped Zinc Oxide conductive oxide layer and increased the Solar Cell efficiency by 20%. Analyzed the gathered data using Python, pandas, numpy, and matplotlib. Presented all the results at an international conference

PROJECTS

Artisan Cheese Price Tracker

- Built a robust Python 3.0 web scraper using Selenium, BeautifulSoup, and Postgresql
- Real-time price surveys on major e-commerce retailers every 2 hours using asynchronous computing
- Implemented efficient data retrieval through a FastAPI and React web application reducing load times by 30%

Open-Source Social Media API

- Designed a modular and maintainable social media API utilizing clean architecture and SOLID principles
- Implemented in Python with Fast API, increasing the accessibility of the code for more developers
- Established an open-source license to ensure freedom and openness in the realm of social media

Coder Blitz Independent Game Project

- Developed and launched a multi-platform game in modified C++ (GML)
- Completed the project within an impressive 3-month time frame
- Executed an effective marketing strategy, propelling the game into Morocco's Top 10 trending games

LEADERSHIP POSITIONS

GIKI Debate Team

Topi, Pakistan

Team Captain

2020-2022

- Boosted team popularity by 150% since becoming the captain by spearheading a brilliant marketing campaign. Coached the team members about current affairs and debating mechanics to make team members stand out
- Represented Pakistan and GIKI in 5 different highly prestige debating international tournaments and were consistently within the top 15 teams out of 100s of teams participating
- Hosted an online debating competition using Discord with automated bots. Liaised internationally on social media and debating platforms making up to 84 teams participate in the event

ACHIEVEMENTS

- Obtained 1st Position in the Final Year Project from the Faculty of Materials and Chemical Engineering
- Academic publication in a SCOPUS-indexed journal. Presented research at the 19th International Symposium on Advanced Materials conference
- Achieved a position on the Dean's Honor List consecutively for 5 semesters

SKILLS

Technical Skills: TypeScript, Javascript, React.Js, React Native. Nodejs, Next.Js, Python, MySQL, Postgresql, Full Stack Development, API Development, Front End Development, Web Scraping, Cascade Style Sheets, HTML5, FastAPI, Express, Fastify, Design Systems, Domain Driven Design, Clean Architecture

Other: Debator, Digital Artist on Instagram (@mamber2403)