

# Abdullah Mangrio

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## EDUCATION

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### FAST National University of Computer & Emerging Sciences

Peshawar, Pakistan

*BS Computer Science – 3rd Year*

*2024 – Present*

- Relevant Coursework: Artificial Intelligence, Probability & Statistics, Database Systems, Software Design & Analysis, Operating Systems

## EXPERIENCE

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### Co-Lead

2024 – Present

*Google Developer Groups on Campus (GDGoC) – FAST NUCES Peshawar*

- Co-leading a Google-affiliated developer community, organizing workshops, coding sessions, and tech events for students.
- Coordinating with Google Developer Programs for campus outreach and developer activities.

### Marketing Manager Intern

Jan 2024 – Jun 2024

*The ViewFinder Digital*

*Karachi, Pakistan*

- Managed client accounts and coordinated social media marketing campaigns across multiple platforms.
- Developed content strategies and handled campaign performance tracking for digital marketing clients.

### Founder & CEO

2022 – 2023

*AM Digital – Marketing Agency*

- Founded and operated a digital marketing agency during college, handling client acquisition and service delivery.
- Gained hands-on entrepreneurial experience in business operations, client management, and digital strategy.

### Freelance Web Developer

2024

*Independent Client Project*

- Built a YouTube playlist tracker web app for a client with real-time multi-user catalog management of 900+ playlists.
- Integrated Firebase Realtime Database for live sync; deployed to GitHub Pages.

## PROJECTS

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### SafeCity PK – Crime Hotspot Analyzer | *React, FastAPI, PostgreSQL, JWT, Leaflet*

- Built a full-stack crime intelligence platform with citizen report submission, admin verification workflows, and real-time DB-powered crime map using Leaflet.
- Implemented JWT authentication with role-based access control (admin, analyst, operator) and a complete audit logging system.
- Designed PostgreSQL schema with SQL analytics for hotspot detection and dangerous-hours analysis.
- Planned: ML-based crime prediction module to forecast future incidents using historical spatial and temporal patterns.

### PakUniInfo – University Discovery Platform | *React, Node.js, Express, MongoDB, Netlify*

- Developed and deployed a full-stack platform helping students explore Pakistani universities with filters by province, city, program, and fee range.
- Built secured admin panel with JWT auth for CRUD management of university data; live at [pakuniinfo.netlify.app](https://pakuniinfo.netlify.app).

### IT Equipment Complaint Management System | *Java, Java Swing, OOP*

- Designed and implemented a desktop complaint management system from SRS to UML to working application as SDA coursework.
- Applied OOP design patterns: Singleton, Inheritance, Abstract classes; covered all 20 functional requirements with role-based dashboards.

## LEADERSHIP & ACHIEVEMENTS

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### **Student President**

2021 – 2022

*Aitchison Model School (AMS)*

*Karachi, Pakistan*

- Elected Student President, heading all student body activities, events, panel discussions, and discipline regulations.
- Served as primary liaison between student body and school administration.

### **Model United Nations (MUN) – 4 Awards Won**

2020 – 2022

*5 Conferences*

- Competed in 5 MUN conferences, winning awards in 4 – demonstrating research, public speaking, and negotiation skills.

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, Java, C++, SQL

**Frontend:** React, Vite, HTML5, CSS3

**Backend:** Node.js, Express, FastAPI (Python)

**Databases:** PostgreSQL, MongoDB Atlas, Firebase Realtime DB

**Tools & DevOps:** Git, GitHub, Linux (Ubuntu), Netlify, Render

**Concepts:** REST APIs, JWT Auth, RBAC, OOP, UML, Database Design, Normalization