

Farooq Ahmed Khan

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Profile

- Final-year Computer Science undergraduate with expertise in Web and Software Development, AI/ML Engineering, Data Analytics, Automation, and IoT/Embedded Systems. Successfully completed numerous real-world projects integrating advanced AI/ML algorithms, data science techniques, and diverse technologies to deliver impactful solutions.

Experience

WEB & AI DEVELOPER | FREELANCE | 07/2020 - PRESENT

- Developed and deployed complex web applications for diverse clients using modern tools and frameworks.
- Designed and integrated AI/ML models into web apps, enabling predictive analytics and data-driven solutions.
- Delivered tailored web solutions to address unique business needs, ensuring scalability and performance.

IT INTERN | SULTANA FOUNDATION, ISLAMABAD | 10/2023 - 03/2024

- Designed and implemented a cloud-supported IoT-based biometric attendance system to streamline employee management.
- Enhanced and maintained the institution's website, introducing new features and optimizing user experience.
- Led the digitization of institutional records, improving accessibility and organization.

DATA INTERN | MOHI-UD-DIN UNIVERSITY, ISLAMABAD | 06/2019 - 09/2019 & 06/2022 - 09/2022

- Developed digital solutions for HR record management, streamlining processes and improving efficiency.
- Automated resume vetting and filtration processes, reducing manual workload and enhancing accuracy.
- Managed and updated the university's website, implementing improvements to functionality and design.

Education

BACHELORS OF SCIENCE IN COMPUTER SCIENCE | FEB 2021 - JUNE 2025 | SZABIST, ISLAMABAD

- Acquired a strong foundation in programming, algorithms, and software development with an emphasis on real-world problem-solving.
- Gained expertise in web development, AI/ML, data analytics, Automation, and IoT through coursework and practical projects.
- **Final Year Project:** *"Health-Monitoring System Integrating IoT Sensors, Predictive Analytics (AI/ML), and a Web Application for User Interaction."*
- **Relevant Courses:** Data Structures & Algorithms, OOP, Computer Architecture, Digital Logic Design, Operating Systems, Analysis of Algorithms, Calculus, Linear Algebra, Differential Equations, Applied Physics, Networking/Communication, Databases, and Artificial Intelligence.

Skills & Abilities

Artificial Intelligence & Machine Learning

- **Frameworks & Libraries:** TensorFlow, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Keras, PyTorch, OpenCV.
- **Expertise:** Data preprocessing, feature engineering, model development, training, and evaluation.

Data Analytics

- **Tools & Libraries:** Seaborn, Matplotlib, Tableau, Power BI, SQL (MySQL, PostgreSQL, BigQuery).
- **Techniques:** Exploratory Data Analysis (EDA), data visualization, dashboard creation, and statistical analysis.

Web Development

- **Backend:** Django, Flask, PHP.
- **Frontend:** React, Angular, Bootstrap, JavaScript, Web Sockets.
- **APIs & Integration:** RESTful APIs, Webhooks, third-party API integration.

DevOps & Cloud Computing

- **Version Control:** Git, GitHub, GitLab.
- **CI/CD Tools:** GitHub Actions, Docker.
- **Cloud Platforms:** Google Cloud Platform (GCP), Microsoft Azure.

Programming Languages

- Proficient in Python, C/C++, C#, and JavaScript.

IoT & Embedded Systems

- **Technologies:** Digital Logic Design, Python, C/C++, Arduino IDE.
- **Microcontrollers:** Raspberry Pi, Arduino, ESP.

Development Methodologies

- Agile, Waterfall, MVC, MVT, Microservices architecture.

Projects

- **FYP - Health-monitoring system:** Analyzes health metrics, predicts conditions, and supports early detection of health issues, all in real-time. Integrated messaging system, alerts & accounts.
- **Android application analyzer:** Filters out suspicious apps by analyzing different components with AI.
- **Real-estate price prediction app:** Predicts prices of UK properties of different features and for different timelines.
- **Hospital management system:** complete system including payment gateways, multiple users etc.
- **Human-detector app:** Detects and distinguishes humans from other things using AI.
- **Aerospace app:** Satellite trajectory analysis GUI using Python.
- **AI-powered HR application:** Provides AI insights and assistance to Hiring Managers and candidates.

Certifications

- ASPIRE Leaders Program (Alumnus; 2024)
- Google Data Analytics Professional Certification (Coursera)
- Programming the Internet of Things Specialization (UC, Irvine - Coursera)
- Data Analytics and Business Intelligence (Digiskills.pk)
- Web Applications for Everybody (UMich - Coursera)
- Meta Front-End Developer Professional Certificate (Continued)
- Advanced Python (Continued)
- Java Development (Continued)

Clubs/Societies

- Google Developer Student Club & Microsoft Learn Student Club (August 2022 – PRESENT)
- Google Cloud Live and Google Developer Club (Member since 2023 – Islamabad chapters)
- Pakistan Youth Parliament (Member from January 2025)

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