Talha Asghar

Sr. Software Engineer — Full-Stack & AI/ML — Python, Django, TensorFlow, JS, React

🌐 talhaasghar.dev ⤢ | in @iamtalhaasghar ⤢ | ⌨ @iamtalhaasghar ⤢

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EDUCATION

MS, COMPUTER SCIENCE
specialization in **Artificial Intelligence**
NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY, SEECS (NUST) ⤢
Aug 2025 | Islamabad, PK
Cum. GPA: : 3.65 / 4.00

BS, COMPUTER SCIENCE
KHWAJA FAREED UNIVERSITY OF ENGINEERING & IT (KFUEIT) ⤢
July 2021 | Rahimyar Khan, PK
Cum. GPA: 3.88 / 4.0
Gold Medalist

SKILLS

PROGRAMMING
Python, Javascript, C/C++, Java, Kotlin, PHP, C#, Go, Rust

TOOLS & FRAMEWORKS
Django, Flask, FastAPI, Node.js, React.js, React Native, TensorFlow, MySQL, PostgreSQL, Redis, AWS, Linux, Bash, Git, FreeSWITCH, Asterisk, Grafana, Prometheus, Monit, Munin, Apache Airflow, Metabase, NumPy, pandas

COURSEWORK

GRADUATE
Mathematics for Machine Learning
Machine Learning
Deep Learning
Big Data
Data Mining

UNDERGRADUATE
Programming Fundamentals
Object Oriented Programming
Data Structures and Algorithms
Databases
Operating Systems
Design and Analysis of Algorithms
Digital Logic Design
Computer Architecture and Organization
Theory of Automata
Compiler Construction
Web Development
Mobile App Development
Artificial Intelligence
Information Security
Computer Networks

EXPERIENCE

CONVERGENCE BUSINESS SYSTEMS ⤢
SENIOR SOFTWARE ENGINEER
Jan 2023 - Present | Islamabad, PK (Remote)
- Deployed a call center solution handling **60K+ daily calls** for a global telecom client.
- Built an agent evaluation system for **215+ agents**, boosting performance insights.
- Designed a data lake processing **4TB/month** for monitoring and reporting.

ASSOCIATE SOFTWARE ENGINEER
Nov 2021 - Jan 2023 | Islamabad, PK (Remote)
- Collaborated across teams to **troubleshoot** and **resolve complex system issues**, ensuring smooth legacy-to-modern transitions.
- Optimized application performance by refactoring legacy codebases and **reducing technical debt**.

RAPIDEV ⤢
MACHINE LEARNING ENGINEER
Jun 2022 – Feb 2023 | National Software Technology Park (Contract, Hybrid)
- Developed ML-based bot detection to identify and analyze fraudulent Twitter accounts for a **government organization**.

FIVERR
FREELANCE PROGRAMMER AND IT CONSULTANT
Oct 2018 – Nov 2021 | Freelance
- Delivered **120+** client projects with a consistent **4.9+** star rating, including a full Clinic Management System for a German clinic.

PROJECTS

Bot Account Detection ⤢: ML system to **detect bot activity** on Twitter in **real-time**.
Smart Time Table Scheduler ⤢: Generic algorithm to generate **clash-free** university class schedules.
The Revivalists App ⤢: Customized, deployed, and managed backend of a FOSS messaging app with **2k+ users** for a community.
Brand Try it Out ⤢: Bachelor's final year project, an Android app using **AR** to let users try on clothes and accessories

CERTIFICATIONS

Meta Full Stack Engineer ⤢	*Meta – Jun 2025*
Meta React Native Specialization ⤢	*Meta – Jun 2025*
Deep Learning Specialization ⤢	*deeplearning.ai – Sep 2023*
TensorFlow Developer Professional Certificate ⤢	*deeplearning.ai – Aug 2023*
Machine Learning Specialization ⤢	*Stanford – Dec 2022*
Django for Everybody Specialization ⤢	*University of Michigan – Jun 2022*

AWARDS

2019	top 25/65+ teams	Regional Finals in ACM ICPC, GIKI Topi
2019	1st/University	Speed Programming, Fareed Innovation and Tech Event
2018	2nd/University	Speed Programming Contest, KFUEIT Tech Olympiad
2018	top 3/Class	Merit based scholarship
2018	1st/Department	Best Semester Project among all CS & IT Students