

Adnan Sheikh

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TECHNICAL SKILLS

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

Frameworks: ReactJS, NextJS, NodeJS, Express

Databases: MySQL, PostgreSQL, MongoDB, HBase, Redis, Hive

Libraries: Pandas, NumPy, PySpark, Scikit-learn

Tools: Git, GitHub, Docker, Linux, Jupyter, Streamlit

Core Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOPs), Database Management Systems (DBMS), Operating Systems (OS), Computer Networks (CN), Rest APIs, System Design

PROJECTS

Codebooks — Online Coding Practice & Evaluation Platform — NextJS, NodeJS, MySQL, Redis, Docker

- Built a full-stack coding platform enabling users to write, execute and evaluate code in real-time.
- Designed backend and execution workflows handling code submissions, test case validation and result generation.
- Implemented role-based system for students and admins supporting problem creation, submissions tracking and performance analytics.

Neurabase — Custom Lightweight Database System — C++, Git, Github

- Engineered a SQL-style query processor supporting SQL-like commands using a custom tokenizer, parser.
- Implemented file-based persistent storage to process structured queries for fast enabling data retrieval.
- Executed 1000+ database queries with table formatted outputs, reducing query execution time by 67%.

SafeNet — Crime Pattern Analysis & Prediction System — Python, Hive, Hadoop, Streamlit

- Built distributed data processing pipelines using PySpark and Hadoop to clean and analyze 50,000+ crime records.
- Applied machine learning to analyze response time and hotspot patterns to reduce crime response time by 76%.
- With Streamlit, enabled real-time visualization of crime hotspots and resource allocation insights.

EXPERIENCE

Founder & Full Stack Developer Lead — 12Fox Studio

Jul 2023 – June 2025

Dehradun, UK

- Founded and operated a design and development agency delivering branding and digital solutions for startups.
- Delivered web development, branding and UI/UX projects for multiple clients across different industries.
- Increased Client's lead conversion rate by 57% and their sales by 87% through online channels.

Creative & Full Stack Lead — Google Developer Group, Dehradun

Aug 2023 – Jul 2024

Dehradun, UK

- Organized multiple technical events, workshops, and community meetups across campuses.
- Collaborated with organizers and speakers to promote events, increasing student engagement within the local developer community.
- Designed 200+ event graphics and digital assets aligned with Google brand guidelines for developer community.

EDUCATION

B.Tech Computer Science & Engineering (AI & Data Science)

CGPA: 8.46 / 10

Graphic Era Hill University, Dehradun, UK

Aug 2023 – 2027

Higher Secondary Education (ICSE)

Percentage: 90.5%

Touch Wood School, Dehradun, UK

2022 – 2023

ACHIEVEMENTS, RESEARCH & CERTIFICATES

- Winner & Top 5 Finalist (2x), University Hackathons at Graphic Era University (Team Leader).
- Research Paper - "A Comparative Study of Deep Belief and Transfer Learning Models for Skin Cancer Diagnosis" (Under Review)
- Python for Data Science — NPTEL.
- Google Cloud Computing Foundations.