ZAIN ULLAH

Data Scientist / Full-Stack Developer

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SUMMARY

Data Scientist & Full-Stack Developer with a Master's in Data Science and 4+ years of combined experience in developing performant, data-driven web applications (React, Next.js, TypeScript) and implementing advanced ML/NLP solutions. Proven ability to own the full product lifecycle, from scalable backend architecture (Prisma, PostgreSQL, Next.js server actions) and cloud deployment (Vercel) to integrating AI-powered features and deep learning models.

EDUCATION

Master's in Data Science   09/2020 – 06/2024
Sapienza University di ROMA, Italy

Bachelor's in Computer Science   09/2015 – 06/2019
Comsats University Islamabad, Attock Campus, Pakistan

SKILLS

Frontend: React.js   Next.js   TypeScript   JavaScript   Tailwind CSS   HTML5/CSS3   React Router   shadcn/ui

Backend & Database: Next.js api & server actions   Flask   Prisma ORM   PostgreSQL   Neon   Appwrite   REST APIs

Data Science & ML: Python   Pandas   NumPy   Scikit-Learn   Keras   NLP   Web Scraping   Data Mining   Deep Learning   Data Analysis   Selenium   Data mining   Computer vision   ML algorithms

Tools & DevOps: Vercel   GitHub   Git   Stripe   Clerk Auth   Next Auth   JWT auth

Libraries & Frameworks: React Flow   Zustand   TanStack Query   OpenAI API

PROJECTS

NexScrape Live   Aug 2025 - Present — Web Automation SaaS
Visual workflow editor for web automation combining React Flow, Next.js, and OpenAI. Led end-to-end architecture: Next.js server actions with worker processes, Prisma plus PostgreSQL, Clerk authentication, and Stripe usage-based billing. Integrated OpenAI API for AI-powered data extraction converting unstructured web content into structured JSON with validation , achieving 95%+ accuracy, and retry mechanisms. Features include workflow history viewer, execution logs, and error handling for reliable automation runs.

NexQit Live   May 2025 — Software Company
Modern frontend project built with Next.js, Three.js for 3D graphics, Framer Motion for animations, and reCAPTCHA integration. Features SEO optimization, interactive forms, and immersive user experience.

ENT Care Clinic Live   Aug - Oct 2025 — Healthcare Platform
Next.js healthcare platform with Appwrite integration, patient self-service (appointments, history, profiles), and admin dashboard. Deployed on Vercel with Tailwind CSS, reducing manual appointment scheduling time by 30%.

Buzzly Live   Aug - Sep 2025 — Frontend Learning Project
Responsive social media app with Clerk auth, React Router v7, Zustand state management, and TanStack Query for server state.

DeFi Crypto Bot Live   Jul 2021 - Aug 2022 — Python Trading Bot
Developed a Python based algorithmic trading bot for Pancake Swap, automating token trades (selling and buying DeFi coins). Features a custom-built CMD interface for real-time price checking, monitoring, and control, demonstrating expertise in both financial automation and robust application development.

EXPERIENCE

Full-Stack Developer   July 2024 – Present
Freelance & Personal Projects
Building production-ready web applications and SaaS platforms using modern technologies.

- Led full product lifecycle of NexScrape, a web automation SaaS with visual workflow editor (React Flow), Next.js backend, Prisma + PostgreSQL, Clerk auth, and Stripe billing.
- Integrated OpenAI API for AI-powered data extraction from unstructured web content into structured JSON formats.
- Developed ENT Care Clinic healthcare platform with Appwrite, patient self-service, and admin dashboard using Next.js and Tailwind CSS.

Data Scientist   10/2022 – 01/2024
FASI – Fondo Assistenza Sanitaria Integrativa, Rome, Italy
Italian healthcare assistance fund focusing on data analysis and system development.

- Developed and deployed end-to-end NLP pipelines using Python and deep learning to achieve 80% classification accuracy in customer sentiment and topic extraction from call-center data.
- Increased predictive model accuracy by engineering robust features from large, disparate insurance datasets, significantly improving reporting quality for executive stakeholders.

Research Assistant   10/2019 – 09/2020
Jeju National University, Jeju, South Korea
Remote research role focused on data analysis and machine learning.

- Designed and implemented YOLOv3-based object detection and behavior classification models, leading to 91% performance improvement over baseline methods in video analysis.
- Collected, cleaned, and analyzed large web-scraped datasets to support multiple research projects.

CERTIFICATION

Machine Learning Specialization
Certificate of completion for the Machine Learning Specialization program

Deep Learning Specialization
Certificate of completion for the Deep Learning Specialization program

PUBLICATIONS

Face Recognition Comparative Analysis Using Different ML Approaches, Advances in Science and Technology Research Journal (ASTRJ), 2021 Link

LANGUAGES

English (Fluent)   Urdu (Native)   Italian (Beginner)