

Fatima Mustafa

Full Stack Developer

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Resourceful Full Stack Developer with 1+ years of hands-on experience building, deploying, and scaling high-performance web applications and subscription-based platforms. Proficient in both front-end (Next.js, React, TailwindCSS) and back-end (NestJS, Node.js, Flask) development, along with data and AI integration using ResNet models. Experienced in deploying secure, responsive solutions via AWS, Heroku, and CI/CD pipelines.

Key Skills

- Front-End: Next.js (App Router), React, TailwindCSS, HTML5, CSS3
- Back-End: NestJS, Node.js, Express.js, Flask (Python), PostgreSQL, MongoDB
- AI & Data: Python (ResNet, Data Science, AI/ML integration)
- Cloud & DevOps: AWS (Elastic Beanstalk, EC2, S3, RDS, IAM), Docker, Heroku, GitHub Actions (CI/CD)

Education

BS in **Computer Science**, FAST NUCES (2020 – 2024)

CGPA: 3.41

Data Analysis using Python, 10Pearls University (2022), Developing Back-End Apps with Node.js and Express, Coursera (2023), Python for Data Science, AI & Development, Coursera (2023)

Professional Experience

Full Stack Developer, Code Huddle

July 2024 – Present

- Architected and maintained full-stack applications with Next.js (App Router) and NestJS, serving ~25k users and driving 24% organic traffic growth.
- Managed AWS infrastructure (Elastic Beanstalk, EC2, Docker), reducing infrastructure costs by 38%.
- Designed and integrated secure APIs (Plaid, Stripe, PropertyData) for real-time payments, data and subscriptions.
- Built CI/CD pipelines using GitHub Actions to enable rapid, reliable deployments with minimal downtime.
- Enforced data-security and operational policies using AWS S3, RDS and IAM, improving system reliability.

Software Development Intern, SolutionsHut

08/2022 - 09/2022

- Contributed to MERN-stack microservices: developed UI components and backend API endpoints, participated in Agile sprints, and helped refine deployment workflows.

Teaching Assistant / Lab Demonstrator, FAST NUCES

08/2022 - 01/2024

- Mentored 50+ students in Discrete Structures, Programming and Operating Systems labs; developed instructional materials, ran lab sessions, and clarified complex technical concepts to support student success.

Projects

MyPropertyOrganiser

- Led both front-end and back-end development using Next.js 15 (App Router) and NestJS.
- Integrated Plaid, Stripe and PropertyData APIs for real-time data and subscription handling.
- Built CI/CD workflows with GitHub Actions and deployed via AWS Elastic Beanstalk, ensuring scalable delivery.

HonestDog

- Redesigned and optimised the HonestDog platform end-to-end, improving UX and reliability.
- Automated CI/CD workflows, managed deployments across AWS and Heroku, and integrated communication frameworks for breeder–adopter interactions.
- Co-led SEO and analytics improvements, contributing to 24% growth in organic traffic.

VeteranMeet

- Built a MERN-stack social networking app with JWT authentication for veterans, enabling user registration, secure login, and interactive posting.

Automated UI/UX Usability Evaluation Tool (FYP)

- Developed a Chrome extension with a Flask backend using ResNet models to automatically evaluate user interface usability; applied data science techniques to generate usability metrics and recommendations.