

Zohaib Shaikh

Full-Stack Engineer

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Full-Stack Engineer with 4+ years' experience building modern web applications and AI-powered solutions. Proficient in React, Next.js, TypeScript, and Python, with expertise in scalable backend APIs, AI/ML integration, and responsive frontends. Experienced in fast-paced, collaborative teams delivering clean, maintainable code. Passionate about applying technology to accelerate the energy transition, electrification, and sustainability through data-driven innovation.

Work Experience

Full-Stack AI Engineer

Nov 2024 - Present

McAttoh Ltd | London, United Kingdom

Delivered AI-powered full-stack solutions using React, Next.js, Node.js, and Python. Designed scalable APIs and integrated ML features to enhance usability, performance, and clinical workflows.

- Led development of AI-powered feature improving system efficiency by 15%.
- Increased app performance by 20% through code optimization.
- Built and maintained scalable web applications with React.js, Next.js, Node.js, and TypeScript, enabling faster feature delivery.
- Developed PathoLens, an AI platform for breast cancer detection, with visual heatmaps and automated PDF reports.
- Designed user-friendly interfaces with Tailwind CSS and Redux for complex data visualization.

Full-Stack Developer

Oct 2021 - Sep 2024

Flymingo Tech | Pune, India

Built and maintained full-stack applications using React, React Native, and CodeIgniter with a focus on responsive design, API integration, and cross-functional collaboration.

- Developed and maintained web apps with React.js and mobile apps with React Native.
- Built and integrated APIs with CodeIgniter 4 for web and mobile platforms.
- Ensured cross-browser compatibility with responsive design practices.
- Collaborated with designers, PMs, and developers to deliver high-quality products.
- Contributed to code reviews and provided constructive feedback for better team output.

Projects

MSc Dissertation: Synthetic Histopathology Image Generation with Diffusion Models

Jun 2025 - Sep 2025

Developed diffusion models to generate synthetic pathology images, improving cancer classification performance in data-scarce scenarios.

- Developed Latent Diffusion Model (Stable Diffusion v1.5) on TCGA-BRCA dataset to generate synthetic histopathology images.
- Built evaluation framework for data augmentation and privacy-preserving medical imaging.
- Achieved +0.247 AUROC improvement in downstream cancer classification under data-scarce scenarios.

PathoLens

Jun 2025 - Jul 2025

AI-powered pathology platform that helps detect breast cancer from medical images, featuring visual heatmaps to explain predictions and automated PDF report generation.

- Built with Python, Streamlit, and FastAPI for scalable performance and usability.
- Integrated AI/ML models (PyTorch, TensorFlow) to analyze medical images.
- Designed visual heatmaps for explainable AI predictions.
- Automated PDF reporting for clinical workflows.
- Improved system efficiency by 15%, enhancing decision support for pathologists.

Micbam Corporate Website

Feb 2025 – Apr 2025

Designed and developed Micbam's official corporate website using React.js and Next.js, featuring a responsive design, global presence visualization, and interactive service sections

- Built with React.js, Next.js, and Tailwind CSS for a scalable and responsive frontend.
- Implemented Global Presence Map with interactive markers and animated arcs to showcase company operations worldwide.
- Developed About Us and Services pages with professional layouts, animations, and detailed content aligned with corporate branding.
- Integrated EmailJS for contact form submissions with automated email responses.
- Optimized for mobile, tablet, and desktop with smooth UI/UX across devices.
- Deployed on Vercel ensuring high availability, performance, and scalability.

More projects available at: www.zohaibshaikh.com

Core Skills

Frontend: React.js, Next.js, TypeScript, JavaScript, Tailwind CSS

Backend: Node.js, Express.js, Python, FastAPI, REST APIs

Databases: MySQL, MongoDB, Firebase, Neo4j

AI/ML: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Hugging Face

Tools/Platforms: Git, GitHub Actions, Docker, Postman, Swagger, NPM, Figma, Streamlit, Google Colab

Other: Agile/Scrum, Test-Driven Development (TDD), CI/CD

Education

University of Surrey

Sep 2024 - Sep 2025

Master of Science (MSc) Artificial Intelligence

Core Modules: Machine Learning, NLP, Computer Vision, AI in Health, AI Ethics.

Savitribai Phule Pune University

Aug 2020 - Apr 2023

Bachelor of Business Administration in Computer Applications (BBA-CA)

Courses: Database Management Systems (DBMS), Web Development, Software Engineering

GPA: 9.51

Languages

English (Fluent), Hindi (Native), Marathi (Fluent)

Awards

Outstanding Alumni Award – 2024

Feb 2024

Abeda Inamdar Senior College (Affiliated to Savitribai Phule Pune University), Pune

Recognized as an Outstanding Alumni for professional achievements and contributions in technology and innovation.