Mohd Ashkan Khan

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Technical Skills

Languages & Tools: JavaScript, TypeScript, Java, Python, C, C#, HTML, CSS
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tensorflow, Flask, TailwindCSS, WebSockets, Redux
Databases: MongoDB, MySQL, ConvexDB | **Version Control:** Git, GitHub

Professional Experience

Full Stack Developer Intern: *Finsocial Digital Systems, Remote*   Dec 2024 - Jan 2025

- Developed responsive user interfaces with React.js and TailwindCSS, and built RESTful APIs using Node.js and Express.js for seamless backend communication and authentication.
- Collaborated in an Agile environment, contributing to sprint meetings and code reviews to maintain clean, scalable code.

Software Engineer Intern: *Techpro Compsoft, Noida*   July 2024 - August 2024

- Gained hands-on experience in software development practices while building REST APIs using C# and .NET to enhance functionality and data interaction.
- Strengthened proficiency in ReactJS and C#, contributing to both frontend and backend development tasks.

Projects

NeuroChest – Multi-label Chest X-ray Diagnosis System   *GitHub*
Python · Tensorflow · Flask · React.js · TailwindCSS

- Built an ensemble deep learning model (VGG16, VGG19, DenseNet121, ResNet50) to detect 14 thoracic diseases from chest X-rays using the CheXpert dataset (230K+ images).
- Achieved up to 98.6% accuracy and 95%+ on multiple critical pathologies; optimized label-wise thresholds for binary classification from predicted probabilities.
- Developed a full-stack web app enabling X-ray uploads and returning real-time diagnostic predictions with confidence scores.

SpeakUp – Anonymous Workplace Reporting Platform   *Live | GitHub*
Next.js · TypeScript · TailwindCSS · ShadCN UI · NextAuth · ConvexDB

- Developed a secure, anonymous web platform that allows employees & students to report workplace incidents without revealing their identity, fostering a safer and more inclusive organizational culture.
- Integrated secure authentication with Google and GitHub via NextAuth, and Convex for real-time data and secure, serverless backend.
- Implemented role-based access to allow organization admins to view and respond to incident reports, while maintaining strict privacy controls.

DocuFlow – Collaborative Document & Whiteboard App   *Live | GitHub*
Next.js · TypeScript · TailwindCSS · ShadCN UI · Kinde Auth · ConvexDB

- Developed a full-stack document collaboration platform inspired by Eraser.io, allowing users to write, draw, and manage documents in a structured workspace.
- Implemented rich-text editing with Editor.js and collaborative whiteboard drawings using Tldraw, with a responsive UI using ShadCN and TailwindCSS with support for light/dark mode.
- Integrated Kinde authentication for secure user login and role-based access to team workspaces, and ConvexDB for serverless real-time querying and CRUD operations for documents and team management.

Education

Bipin Tripathi Kumaon Institute of Technology - Dwarahat   Aug 2021 – Present
Bachelor of Technology - Computer Science and Engineering

K.V.M. Public School - Haldwani   May 2021
Senior Secondary   Percentage - 94%

Achievements

- Qualified **GATE 2025** in Computer Science & Engineering.
- Solved **270+** problems on LeetCode, covering Data Structures and Algorithms.