

# Saife Shuhaib Md.

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## Skills

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Python | JavaScript | SQL | OOP | Django | FastAPI | REST APIs | GraphQL | PostgreSQL | Supabase | Docker | Git  
PyTorch | ONNXRuntime | Pandas | Numpy | OpenCV | Natural Language Processing (NLP) | Deep Learning  
Computer Vision

## Experience

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**Software Engineer** **REEA Digital Limited** **01/2024 - Current**

- Reduced system response time by 67% (from 1.5 minutes to 30 seconds) by implementing multithreading for parallel API execution. Developed a Legal AI Assistant to answer state-specific legal questions and provide accurate citations, improving vector query accuracy through data cleaning and query augmentation and enhancing citation module accuracy by 60%.
- Increased user satisfaction by 80% and eliminated manual data entry by implementing database-driven user settings. Built a meeting transcription and note-generation system, building APIs for admin prompt modifications that improved admin productivity and reduced developer dependency by 100%.
- Reduced translation errors by 25% by developing a panel detection module and enhancing image processing for a real-time comic translation system serving 50k users. Optimized the model for efficient inference and deployment.

**Software Engineer** **BJIT Limited** **11/2021 - 12/2023**

- Improved Real-Time Face Analysis Performance by 40%, providing landmark detection and analysis for 700+ employees. Developed an internal tool, optimizing performance with parallel processing and frame-skipping techniques.
- Reduced File Size by 90% (to 30 KB) and Achieved Inference Times Under 1 Second in an Android face recognition app with fully homomorphic encryption, ensuring secure and efficient facial recognition.
- Reduced QA Effort by 50% by developing an internal AI automation tool using computer vision and machine learning, significantly minimizing manual quality assurance processes.
- Automated Data Extraction from PDFs, cutting manual work by 80%, by developing a layout-based OCR module to extract structured information from post orders.
- Achieved Image Processing Times Under 200 ms by developing a Food Detection API capable of identifying 13 categories of Japanese food, ensuring fast and accurate real-time detection for enhanced user experience.

## Education

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**Bachelor of Science** **Chittagong University of Engineering and Technology** **02/2016 - 06/2021**

- Electronics and Telecommunication Engineering | CGPA: 3.58/4.00

## Projects

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- Chess AI: Developed a Chess AI web app using python-chess, chessboard.js, pytorch, and Django, featuring AI opponents powered by the Classic MiniMax Algorithm and Convolutional Neural Network (CNN).
- Flashcards: Created a flashcard CRUD application using Django, GraphQL, HTML and Bootstrap. The application was designed to efficiently review and manage my solved data structure and algorithm questions.

## Achievements & Leadership

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- Ranked among the Top 5 teams in Robi Datathon 2.0
- Vice President, CUET Photographic Society