

# Saife Shuhaib Md.

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## Skills

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Python | JavaScript | Django | FastAPI | GraphQL | SQL | PostgreSQL | PyTorch | OpenCV | Pandas | NumPy | Docker | Git | REST APIs | Object-Oriented Programming (OOP) | Natural Language Processing (NLP) | Computer Vision | Deep Learning

## Experience

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### Software Engineer

REEA Digital Limited

01/2024 - Current

- Reduced system response time by 67% by implementing multithreading for parallel API execution of a Legal AI Assistant to answer state-specific legal questions and provide accurate citations.
- Enhanced citation module accuracy by 60% by improving vector query accuracy through data cleaning and query augmentation for a Legal AI Assistant.
- Increased user satisfaction by 80% and eliminated manual data entry by implementing database-driven user settings for a meeting transcription and note-generation system.
- Reduced developer dependency by 100% by building APIs for admin prompt modifications, improving admin productivity for a note-generation system.
- 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.

### 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.

## 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