

MD SAKIB RAHMAN

Software Engineer

Dynamic Software Engineer with 6+ years of experience in Web/API development, cloud solutions, and automation. Skilled in full-stack development, DevOps, CI/CD, and debugging. Proven ability to design scalable, high-performance systems and deliver secure, maintainable software that drives business success.

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Relevant Experience

Software Engineer III

Mediusware Ltd. | Dhaka, Bangladesh | Nov 2024 - Current

- Designed scalable backends with FastAPI, Django, and PostgreSQL improved throughput by 50%.
- Set technical direction and mentored engineers through reviews and workshops.
- Built APIs handling 1M+ daily requests with 99.9% uptime, cut downtime 70% via microservices.
- Led backend improvements, boosting performance by 40% and ensuring on-time delivery.
- Reduced deployment time by 60% using Docker and GitHub Actions CI/CD.
- Automated infra with and added observability via Prometheus and Grafana; cut MTTR by 40%.
- Led a team of 5 aligned tech with business goals and promoted DevOps practices.

Software Development Engineer

Talent Pro | Dhaka, Bangladesh | Jun 2022 - Oct 2022

- Translated complex business requirements into clear, actionable technical specifications.
- Developed scalable RESTful APIs using FastAPI and Flask with comprehensive documentation.
- Accelerated backend delivery timelines by 30% through optimized workflows and communication.
- Deployed cloud services on AWS and enabled real-time monitoring with the Elastic Stack.
- Enhanced communication between business and tech teams using standardized practices.

Software Engineer

Worklife Inc. | Dhaka, Bangladesh | Jun 2021 - Dec 2021

- Built data pipelines for ML-based performance review with tailored employee feedback.
- Reduced database load by 30% through Redis caching, indexing, and query optimization.
- Integrated ML logic with Django REST APIs for personalized performance insights.
- Deployed and maintained backend on AWS EC2 and S3, ensuring 99.9% uptime.
- Streamlined processing of large datasets with minimal latency and high reliability.

Software Engineer

D2 - mPower Social Limited | Dhaka, Bangladesh | Jan 2018 - May 2021

- Designed and implemented Django-based backend with REST APIs.
- Built a real-time data filtering and visualization engine handling millions of records efficiently.
- Created user-friendly web interfaces to visualize database metrics for non-technical stakeholders.
- Reduced query response time by 45% through indexing and optimized filtering logic.
- Scaled data systems and improved engagement by 60% via enhanced visibility and usability.

Skills

- **Programming Languages:** Python, JavaScript, TypeScript, Java, Bash
- **Libraries and Frameworks:** Django, Flask, React, Next.js, GraphQL, FastAPI, Tailwind, jQuery
- **ML Frameworks:** Keras, TensorFlow, Pytorch, Hugging Face Transformers, LangChain
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite, Redis, Firebase, DynamoDB, ClickHouse
- **Tools:** Git, Selenium, Trello, JIRA, Appium, BrowserStack, Figma, VS Code
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, Ansible, CI/CD, Prometheus, Helm
- **Operating Systems:** Linux, MacOS

Projects

WikiSearch

- Developed a search engine using a dump dataset from Wikipedia, integrating three indexing methods and a binary index for fuzzy search and wildcard queries.
- Implemented five ranking methods to evaluate the accuracy of search results, and provided a user interface for testing and demonstration purposes.
- Trained a classifier using the data, and utilized a DNN model to improve search accuracy by 90%.
- Project URL: <https://github.com/rsakib15/WikiSearch>

Enemy Shooting Game

- 2D top-down shooting game built with C++ and OpenGL. Visual effects using OpenGL primitives (spheres, polygons, lines). Enemies spawn dynamically with varying speed and position.
- Interactive shooter controlled using arrow keys and Shoot bullets using spacebar to destroy enemies.
- Life system – lose life if enemies pass the shooter.
- Project URL: <https://github.com/rsakib15/Enemy-Shooting-Game>

Seq2Seq Machine Translation

- Attention-based sequence to sequence English to Bangla (E2B) Machine Translation using Neural Networks and Deep Learning
- Attention mechanism dynamically focuses on relevant English words while generating Bangla output
- Handling of complex sentences & Bidirectional encoding for richer source sentence representation
- Project URL: <https://github.com/rsakib15/Seq2Seq-Machine-Translation>

Automated Bangla Newspaper Crawler

- Developed an automated crawler in Python utilizing web scraping libraries like BeautifulSoup and requests to systematically gather news articles from Bangladeshi newspapers.
- Project URL: <https://github.com/rsakib15/Bangla-Newspaper-Scraper>

Smart Audio Profile Manager

- A mobile app that automatically detects device position using accelerometer and proximity sensors to identify orientation and placement.
- Switches audio profiles automatically: Silent when upside down, Vibration when in pocket, and Normal when in hand or on a desk.
- Allows users to create and manage custom audio profiles for specific scenarios such as driving, meetings, or personal preferences.
- Project URL: <https://github.com/rsakib15/Bangla-Newspaper-Scraper>

Education

- **BSc in Computer Science and Engineering**
American International University - Bangladesh
2013-2018 | Dhaka, Bangladesh
CGPA: 3.95 out of 4.00

Honors & Awards

- Represented and received the Solve Award from the Massachusetts Institute of Technology.
- Placed 2nd and 3rd in the AIUB intra Programming Contest in 2015 and 2016, respectively.
- Secured 3rd place in the IUT ICT Olympiad 2015 and 2nd place in 2017.
- Participated in ACM NCPC 2016 & 2017.
- Won 2nd place in AIUB's 2017 HCI Prototyping Contest for a Smart Campus concept.

Research Works

- Attention-based sequence to sequence English to Bangla (E2B) Machine Translation using Neural Networks and Deep Learning
- Learned Index framework for faster time series indexing on IoT devices.
- A Hybrid Deep Learning model for Encrypted Network Traffic classification
- Automatic wound segmentation with deep convolutional neural networks

Research Interests

- Cybersecurity
- Big Data
- Natural Language Processing

Languages

- English - Fluent
- Bangla - Native

Hobbies

- Travel & exploring cultures
- Reading tech and fiction
- Photography

References

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- **Mashiour Rahman**
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