S.M Moshiuzzaman Shatil

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 moshiuzzaman-shatil

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TECHNICAL SKILLS

- **Core Areas**: Large Language Models, Computer Vision, Natural Language Processing, Real-Time ML, Reinforcement Learning, Distributed Systems, System Design

- **Programming & Frameworks**: Python, C++, C#, Java, JavaScript, FastAPI, Flask, .NET Core, PyTorch, TensorFlow, Scikit-learn

- **Data & Infrastructure**: PostgreSQL, MySQL, Redis, Kafka, Elasticsearch, MinIO/S3, AWS, Azure

- **DevOps & MLOps**: Docker, Kubernetes, Celery, Jenkins, GitHub Actions, GitLab CI, Model Deployment & Monitoring

- **AI & Data Engineering**: Object Detection, License Plate Recognition, Face Embedding Extraction, Scene Detection, Caption Generation, Machine Translation, LLM Prompt Engineering, Model Evaluation Pipelines

- **Leadership & Collaboration**: Technical Leadership, System Architecture Reviews, Team Mentoring, Agile/Scrum Practices, Code Review, Cross-functional Coordination

- **Analytical Foundations**: Data Structures, Algorithms, Optimization, Quantum Computing (Fundamentals)

EXPERIENCE

- **Tiger IT Bangladesh Limited** — Dhaka, Bangladesh

  - **Senior Software Engineer** — *Sep 2024 – Present*
    * Clustered and optimized over **1.2 million facial embeddings** for real-time identity search across HRM, Election Commission, NID, and Passport systems—enabling sub-second face verification at scale.
    * Led and coordinated a **6-member cross-functional team** delivering core AI initiatives including computer vision, NLP, and backend microservices for multiple national and enterprise-grade deployments.
    * Architected and deployed cloud-native microservices using **Docker & Kubernetes**, integrating speech and NLP modules into backend systems to enhance reliability and reduce inference latency.
    * Spearheaded backend architecture for the **iVip** Video Intelligence Platform—integrating FRS, ANPR, and video captioning analytics under distributed orchestration using Redis & Celery.
    * Developed and integrated LLM-driven content generation workflows for **Kindermate**, enabling adaptive lesson plans, contextual tutoring, and image-assisted storytelling.

  - **Software Engineer** — *Feb 2021 – Aug 2024*
    * Built asynchronous pipelines for face recognition and number plate detection using Celery and Redis, ensuring scalable inference and efficient load balancing.
    * Designed REST APIs and automated benchmarking tools for multilingual ML models, enabling continuous evaluation in production environments.
    * Integrated performance monitoring and evaluation loops across FRS, ANPR, and translation modules to track accuracy drift and operational efficiency.
    * Contributed to **CommChat**, developing translation and speech pipelines for multilingual communication and streamlining CI/CD automation across deployments.

- **Mindfork Tech Ltd.** Dhaka, Bangladesh
  - ○ **Software Development Intern** *Sep 2020 – Jan 2021*
    - ∗ Enhanced a textile e-commerce Android application using React Native and integrated backend APIs with ASP.NET Core.
    - ∗ Designed MySQL schemas and REST endpoints for product and order management, improving data efficiency and reliability.
    - ∗ Refined a .NET Razor-based admin portal, optimizing workflow execution and usability for non-technical operators.

PROJECTS & RESEARCH

- **Industry Projects at TigerIT**: Contributed to **iVip (Video Intelligence Platform)**, **CommChat** (ML translation), **Attendance System (FRS)**, and **Kindermate** (LLM-powered learning app). Focused on backend scalability, model orchestration, and AI integration.
- **Research: Enhancing Splunk for Machine Data Analytics**: Published at ACM. Proposed methodologies to enhance Splunk scalability and visualization through database optimization and rule-based analysis.
- **University Projects**: Developed **HealthyHome** (C# medical record manager) and **ServicePoint** (.NET service/job portal) as academic capstone projects.

EDUCATION

- **American International University - Bangladesh (AIUB)** Dhaka, Bangladesh
  Master of Science in Computer Science; GPA: 3.90 *Sep. 2021 – Mar. 2023*
- **American International University - Bangladesh (AIUB)** Dhaka, Bangladesh
  Bachelor of Science in Computer Science and Engineering; GPA: 3.79 *Jan. 2017 – Oct. 2021*