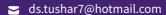
Dabobroto Sarkar Software Engineer

Sutrapur, Dhaka, Bangladesh

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dstushar7







Work Experience

08.2025 – Present Dhaka **Software Engineer** *Technonext Software Limited ⊘*

Ride Sharing Application

• Created a reliable subscription service with Spring Boot and Kafka, automating customer billing with 99.9% accuracy.

06.2025 – 08.2025 Dhaka, Bangladesh Al Trainer (Part-time)

Outlier.ai &

- Engineered and refined complex prompts to evaluate the coding, logic, and reasoning capabilities of large language models (LLMs).
- Reviewed and improved Al-generated code for correctness, efficiency, and adherence to modern software engineering best practices.
- Applied Reinforcement Learning with Human Feedback (RLHF) principles to align model behavior, enhancing its utility for technical and development-focused tasks.

09.2022 – 06.2025 Dhaka, Bangladesh **Software Engineer**

RedDot Diaital Limited ₽

DCRM (Customer Relationship Management System):

- Reduced operational costs by 60% measured by automated task completion time decreasing from 2-3
 hours to 30 seconds by building Spring Boot and JSP-based automation workflows for complex
 operations
- Resolved 100+ critical bugs and implemented 20+ change requests measured by 99.9% system uptime over 36 months by maintaining enterprise-grade CRM serving millions of nationwide customers
- Engineered data export application processing 150+ million records measured by 100% data integrity and 2-hour processing completion by building multi-file generation system distributing data to relevant teams

DCRM Operational Portal:

• Empowered non-technical operations team to perform complex tasks measured by 80% reduction in technical support requests by developing Spring Boot microservice with Angular frontend converting 2-3 hour manual processes into one-click operations

DCRM Bulk and SAAS Middleware:

 Processed 10,000+ bulk files daily measured by 95% processing success rate and 50% faster throughput by implementing multithreaded Spring Scheduler system with REST API integration for concurrent file processing

SFA (Sales Team):

 Delivered 1 million+ scheduled SMS messages monthly measured by 99.8% delivery success rate by building Spring Scheduler-based system sending SMS every 5 minutes with automated retry mechanisms

Mobireach (SMS Marketing Platform):

- Enabled billions of SMS deliveries daily measured by 99.9% platform availability and 25% faster payment processing by integrating PortPos payment gateway and building Spring Boot APIs with React frontend and Kafka message queuing
- Migrated 50+ million customer records from CSV into the database in 10 minutes, achieving 100 % data
 accuracy and zero data loss by designing a high-performance data-synchronization application

DMS (Document Management System):

• Enhanced the open-source Papermerge platform to support 5,000+ daily document operations, achieving a 40% improvement in document processing speed through optimized Python and FastAPI enhancements integrated with Tesseract OCR and Celery task scheduling

Signoz (Application Performance Monitoring):

• Deployed enterprise-wide APM solution monitoring 50+ microservices measured by 60% faster incident detection and resolution by implementing Kubernetes orchestration with ClickHouse database, differentiating from traditional Grafana solutions through columnar database performance

Skills

Programming Languages: Java, Python, SQL

Framework and Libraries: Spring Boot, FastAPI, Selenium

Databases: PostgreSQL, Oracle, ClickHouse

Tools and Technologies: Git, Docker, Kubernetes, Celery, Tesseract OCR, Papermerge

Concepts and Methodologies:

RESTful API Design, Microservices Architecture, Application Performance, Monitoring (APM), Role-Based Access Control (RBAC), Authentication (OAuth 2.0, JWT, 2FA), Security Best Practices, ACID

Transactions, Automated Unit Testing, Agile, Scrum

Personal Projects

10.2025 – Present	 Sticky Notes Developed a desktop sticky notes application using Python and PyQt6, featuring multi-note management and automatic session restoration for content and position. Implemented system tray integration for background access and configured the application with Snapcraft for future Linux distribution. Tools Used: Python, PyQt6, Snapcraft
06.2024 – 09.2024	 Website Crawler Developed a web crawler that efficiently fetches products associated with specified keywords on the Coupang website, comparing prices on AliExpress and generating a required report in txt file. Tools Used: Python, Selenium
08.2023 – 09.2023	 Unicode2Bijoy Converter Ø Converts Unicode texts to Bijoy. Tools: Python, FastAPI, Docker
08.2023 - 09.2023	 Word2Pdf converter for Windows Converts doc file to images and then merges images into pdf Tools used: Python, Tkinter

Education

02.2016 – 06.2022 Chittagong University of Engineering & Technology ∂
Chittagong, Bangladesh B.Sc in Computer Science & Engineering

2013 – 2015 Notre Dame College ∂
Higher Secondary Certificate

2004 – 2013 **Dhaka Collegiate School** *ℰ* Dhaka, Bangladesh *Secondary School Certificate*

Certificates

Prompt Design in Vertex Al ∂

Machine Learning and Artificial Intelligence with Python *Learnt use of Numpy, Pandas and Scikit-Learn*