

Dabobroto Sarkar Software Engineer

Sutrapur, Dhaka, Bangladesh

+8801521334959 , +8801833183694

dstushar7

ds.tushar7@hotmail.com

Dabobroto Sarkar



Work Experience

09.2022 – 06.2025
Dhaka, Bangladesh

Software Engineer
RedDot Digital 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

06.2024 – 09.2024	Website Crawler <ul style="list-style-type: none">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 <ul style="list-style-type: none">Converts Unicode texts to Bijoy.Tools : Python, FastAPI, Docker
08.2023 – 09.2023	Word2Pdf converter for Windows <ul style="list-style-type: none">Converts doc file to images and then merges images into pdfTools used : Python, Tkinter

Education

02.2016 – 06.2022 Chittagong, Bangladesh	Chittagong University of Engineering & Technology <i>B.Sc in Computer Science & Engineering</i>
---	---

Certificates

Prompt Design in Vertex AI	Machine Learning and Artificial Intelligence with Python <i>Learnt use of Numpy, Pandas and Scikit-Learn</i>
-----------------------------------	--