Dabobroto Sarkar Software Engineer

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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	**AI 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 AI-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 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

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** 🔗
	• 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, Bangladesh	**Chittagong University of Engineering & Technology** 🔗 *B.Sc in Computer Science & Engineering*
2013 – 2015 Dhaka, Bangladesh	**Notre Dame College** 🔗 *Higher Secondary Certificate*
2004 – 2013 Dhaka, Bangladesh	**Dhaka Collegiate School** 🔗 *Secondary School Certificate*

Certificates

Prompt Design in Vertex AI 🔗

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