

Anik Datta

Software Engineer | Scalable Systems | ML Integration

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Professional Summary

Results-driven Internet enthusiast with 5+ years of experience in building high-performance backend systems and integrating ML solutions at scale. Proven ability to lead the development of GenAI-powered features, architect microservices for millions of users, and implement Agile workflows and DevOps best practices. Adept at software design, debugging, code review, documentation, and performance optimization

Technical Skills

- PHP | Python | JavaScript | TypeScript | Go | Next.js | Vue.js | MySQL | Postgres | Redis
- Google Cloud Platform | Firebase | Vertex AI | RabbitMQ | Docker | Jenkins | Elasticsearch | Git | CI/CD
- System Design | Microservices | RESTful APIs | OOP | Unit Testing | Agile/Scrum

Work Experience

Software Engineer

Portonics Limited | Dhaka, Bangladesh | 2021 - Present

- Led GenAI-powered persona-based **recommendation service** for telco app; delivered **60+ TPS**, scaled to **33M+ events/month** and **411K+ peak requests/hour** via persona segmentation.
- Designed and developed a multimodal vector search API using Vertex AI and a vector database, handling **50+ TPS** across text and image inputs
- **Integrated APIs** for a FinTech platform with Airtime recharge, Merchant payments, Card management, and Subscription services.
- **Optimized microservices** using PHP, Node.js, and RabbitMQ, enabling real-time processing for **10M+** daily users
- Refactored legacy code, implemented CI/CD pipeline, reducing bugs by **~50%** and increasing deployment speed
- Authored API documentation and operational runbooks for internal/external handoffs

Full-Stack Developer

Gain Solutions Ltd. | Dhaka, Bangladesh | 2020 - 2021

- Engineered a backend email tracking system using Laravel and MySQL, processing 50K+ emails/day. Authored API documentation and integrated alerting systems to ensure reliability.
- Integrated third-party APIs (Mailgun, SES) for high deliverability, achieving a 95%+ success rate
- Created dynamic list segmentation feature, increasing campaign personalization and CTR by 30%

Software Engineer

Smart Software Ltd. | Panthapath, Dhaka | 2018 - 2020

- Built a modular **Hospital Management System** including Booking, Medical investigations, Pharmacy POS, Accounting, and Reporting.
- Collaborated with medical professionals to build a hospital system adopted by 3+ clinics, resulting in a 40% reduction in administrative workload and 99.8% system uptime.

Education

Bachelor of Science in Computer Science & Engineering

Southeast University | Tejgaon, Dhaka-1208 | 2021 - 2024

Diploma in Engineering – Computer Technology

Dhaka Polytechnic Institute | Tejgaon, Dhaka-1208 | 2014 - 2018

Publications

- Reducing Computational Complexity in CNNs: A Focus on VGG19 Pruning and Quantization - *Published in [IJACSA Volume 16 No 6 June 2025]; DOI: <https://dx.doi.org/10.14569/IJACSA.2025.01606105>*
- Multi-Magnification Attention Fusion for Resource-Efficient Breast Cancer Classification with Integrated Grad-CAM Visualization