Md. Abu Yousuf Siam

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Education

Jagannath University, Dhaka   June 2024
Bachelor of Science in Computer Science and Engineering (CGPA: 3.47 / 4.00)   *Dhaka, Bangladesh*
- **Relevant Coursework:** Data Structures & Algorithms (C++ & Java), Probability & Statistics (Python), Object Oriented Programming (C++ & Java), Information Security, Software Engineering, Network Routing and Switching

Experience

Prime Tech Solutions Ltd.   Oct 2023 – Dec 2023
Cloud Computing Intern — DevOps   *Dhaka, Bangladesh*
- **Project Management & Collaboration:** Containerized applications using Docker and orchestrated them with Kubernetes, ensuring seamless deployment and scalability across multiple environments.
- **Cross-functional Coordination:** Led cross-functional team to implement features with Django & MySQL, enhancing user experience & performance.
- **CI/CD Pipeline Management:** Automated deployment processes by setting up CI/CD pipelines using GitHub Actions and Git, while collaborating in an agile environment to deliver project milestones.
- **Communication & Documentation:** Drafted internal deployment guides and presented weekly progress updates to the DevOps team.

Projects

Project Hospital Management System | *Desktop App* | *Java Swing, JDBC, MySQL*
- Reduced patient data retrieval time by 20% through optimized database queries using JDBC and MySQL.
- Managed 500+ patient records and streamlined billing processes, improving operational efficiency by 25%.
- Implemented a user-friendly interface in Java, increasing staff productivity by 20%.
- **Project Management:** Oversaw the development lifecycle, coordinated team tasks, and managed project resources effectively.
- **Operational Improvement:** Streamlined data management, leading to a 25% improvement in operational efficiency.

Project Resort Management System | *Website* | *HTML, CSS, PHP, JavaScript, Bootstrap*
- Developed a website for a resort with real-time booking and cancellation, enabling 24/7 online reservations and reducing manual booking errors by 50%.
- Integrated an online payment gateway, processing 100+ transactions per month securely and efficiently.
- Built a CI/CD pipeline using GitHub Actions & Docker, cutting deployment time by 35%, ensuring consistent, reliable releases.
- **Project Management:** Defined project scope, managed a small team & ensured timely delivery of website features.
- **Communication:** Designed user-friendly interfaces based on client feedback, resulting in high user satisfaction.

Patient's Medical History Record | *Android App & Website* | *Java, Firebase & PHP, MySQL, JavaScript*
- Designed & Developed a secure medical records management system with user-friendly web & android app interfaces for storing & retrieving patient data, clinical findings & diagnostic results with real-time Firebase synchronization, reducing retrieval time by **30%** & input errors by **20%**.
- Implemented role-based access control and transitioning from paper to digital records, cutting manual paperwork by **40%** and improving efficiency across platforms.
- **Project Management:** Managed the development of both the Android app and website, ensuring seamless integration and functionality.
- **Efficiency Improvement:** Transitioned from paper to digital records, significantly reducing paperwork by 40%.

Personal Improvement Monitor | *Android App* | *Android Studio, Java, SQLite, Firebase*
- Currently developing an Android app with Firebase and SQLite for personal goal tracking and resource managing facilities, improving data sync efficiency, reducing latency, and increasing reliability in low network conditions.
- Enhancing app security with Firebase Authentication, securing **100%** of user logins and sensitive data, and ensuring **99.9%** uptime.
- **Project Management:** Currently managing the full development life-cycle of this personal project.
- **Documentation:** Maintaining structured project notes, functional specifications, and user interface plans for version control.

Technical & Hard Skills

Project Management Tools: Trello, Notion, Jira
Google Workspace: Docs, Sheets, Slides, Calendar, Forms
Design Tools: Canva, Adobe Illustrator, Adobe Photoshop
Video Editing: CapCut, Adobe Premiere Pro (Basic), Wondershare Filmora
Languages & Databases: Java, C, C++, Python, MATLAB, PHP, JavaScript, MySQL, SQLite, Firebase
Technologies: Docker, Bash, Git, GitHub, GitLab, Django, Android SDK, Scrum, Spring Boot, TensorFlow
Concepts: Compiler, Operating Systems, Cloud Computing, Machine Learning, AI, Accounting, Data Mining & Warehousing
Other: Typing Speed: 54 WPM

Proficiencies

Soft Skills: Communication (Fluent in English – spoken & written), Organizational Skills, Time Management, Multi-tasking, Attention to Detail, Interpersonal Skills, Teamwork, Leadership, Adaptability, Quick Learning, Teaching

Leadership & Coordination Experience

eNotice Coordinator: IEEE CS Bangladesh Chapter Executive Committee, 2025
Managing official communications, email lists, and timely dissemination of event announcements.
Mentor: IEEE Jagannath University Student Branch, 2025
Guiding members in technical growth, academic & professional development, project involvement & career planning.
Chairperson: IEEE JnU Student Branch Executive Committee, 2023–2024
Led 20+ members, organized workshops, ensured branch operations, and represented the branch in major events.
Joint Secretary: IEEE JnU Student Branch Executive Committee, 2022
Supported branch communication, event coordination, and documentation.

Awards and Extra Curricular Activities

YouTube: The Compiler Bro — Java & Compiler Codes Instructor
Keynote Speaker: Navigating the Landscape of Networking Research: Trends, Challenges & Opportunities | Seminar '25
Best Papers Awards: 1st Runners' Up | IEEE Computer Society Bangladesh Chapter Symposium 2024
Champion: Technology Quiz Segment | National STEAM Olympiad 2023 | Ministry of Education, Bangladesh
Finalist: Campus Power Presenter 2.0 at Jagannath University, Dhaka | PowerPoint Presentation
Finalist: NASA Space Apps Challenge 2022 | Virtual | Bangladesh Region