

Engr. Noor Nabiul Alam Siddiqui

Senior Programmer | Web-GIS | Problem Solver

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SUMMARY

Results-driven and award-winning programmer with 10+ years in web development and AI. Proven to design scalable systems, lead teams, and deliver user-centric solutions solving complex technical challenges and driving business results. Received the Tech-Champ Award for a cutting-edge Web-GIS platform (GiMS).

Technical Skills

Backend: PHP, Laravel, Filament, MySQL, PostgreSQL, PostGIS, GeoServer, GDAL

AI/ML: Python, Artificial Intelligence (model design, deployment)

Project Management: Agile Workflows, Cross-functional Collaboration, End-to-End Delivery

Operating Systems & Tools: Windows Servers, Reverse Proxy, nginx, Apache, SSL, Cloudflare

Soft Skills: Leadership, Problem-Solving, Cross-Team Communication, Detail-Oriented Execution

EXPERIENCE

Senior Programmer

ACE Consultants Ltd. (Subsidiary of SMEC Int. Pty. Ltd), Dhaka, Bangladesh
March 2020 - Present

- Lead cross-functional teams in the design, development, and deployment of scalable and efficient software solutions.
- Conduct comprehensive requirement analysis and project planning to ensure successful project execution.
- Develop and maintain high-quality code, adhering to best practices and coding standards.
- Manage the deployment, monitoring, and maintenance of applications, ensuring optimal performance and security.
- Administer Windows servers, including configuring and maintaining multiple versions of PHP, MySQL, PostgreSQL, GeoServer, NGINX, and Apache.
- Implement domain management and reverse proxy configurations to enhance security and performance.
- Troubleshoot server-side issues to minimize downtime and ensure smooth operations.

- **Key Projects & Achievements**

- **IAMCR Activity System Enhancement (Indonesia):** Led the development of advanced road maintenance utilities designed to extend the capabilities of the **AgileAssets IRMSv3** platform. Under my leadership, our team is bridging the gap between automated data processing and practical field application. I oversee the engineering of custom tools that empower asset managers to generate road segmentations based on precise engineering judgment. Furthermore, we have implemented a visualization module that serves as a critical quality control layer, allowing for the rigorous auditing and modification of IRMSv3-generated treatment plans. By facilitating these refinements, we ensure that maintenance strategies are technically accurate, operationally sound, and aligned with infrastructure standards.
- **GiMS Web-GIS Platform:** Led the development of a cutting-edge Web-GIS platform empowering users with real-time data visualization, collaborative decision-making, and 3D visualization. We deploy this solution over 12 Gov. Projects. And client and team to ensures a smooth effective project delivery. **Awarded the Tech-Champ Award at the GCEO Townhall** for this innovative work.
Live Link: <https://gims.oneacebd.com>
- **AI-Driven Speed Estimation for Transport Modeling:** Designed and deployed a computer vision system using Python and OpenCV (YOLO, DeepSORT, Kalman filters) to estimate vehicle speeds and classify types from traffic videos with ~95% accuracy, enhancing data accuracy for urban planning and reducing data collection costs.
- **AI-Powered Classified Traffic Count System:** Developed a computer vision solution using Python and OpenCV (YOLO) trained on a custom dataset to automate vehicle classification and counting for Bangladesh's traffic networks, providing reliable data for infrastructure development and congestion reduction.
- **Health, Safety & Wellbeing (HSW) & IT Help desk Portal:** Developed a collaborative portal using Laravel TALL stack and Filament to enhance team productivity and focus on safety and IT support.
Live Link: <https://hsw.oneacebd.com>
- **Employee Activity Tracker:** Spearheaded the development of a role permission-based system allowing project managers to manage tasks, track progress, and facilitate transparent activity reporting across teams.
- **Automated Certificate Generate System:** Developed a system streamlining certificate creation and management for trainees, improving efficiency and accuracy.
- **SMEC Water Information System (SWIS):** Optimized database queries and upgraded the front-end dashboard using modern tools, resulting in an intuitive and efficient user experience.

- **Up-Gradation, Rehabilitation, and Intensification of Distribution System (URIDS):** Developed a mobile app for surveyors for data input and a web dashboard for tracking, improving field data collection and progress monitoring.

Android Developer

RTsoftBD, Dhaka, Bangladesh

February 2017 – July 2017

- Designed and implemented efficient and scalable software architecture for the Android platform.
- Developed and maintained high-quality Android applications.
- Conducted testing and debugging to ensure product specifications were met.
- Monitored and improved application performance and security.
- Provided technical support and troubleshoot issues.
- **Projects**
 - The Blood Bank,
 - Client Management System,
 - Hello Car (A car rental application)

Junior Researcher

Daffodil International University, Bangladesh & VIT University, India

May 2013 – December 2013

- Participated in the research project "**Parametric Study of Student Data for Performances Matrices using Data Mining.**"
- Aimed to classify students, identify factors impacting learning outcomes, determine factors contributing to success/failure, enhance market readiness, analyze the relationship between grades and evaluation methods, and develop a model for predicting student performance.

ADDITIONAL PROJECTS

- **De Lujo AR:** Led the development of an Augmented Reality project for a Bangladeshi apparel client using Java, XML, and Easy AR SDK.
- **1WVAC - Augmented Reality Apparel Project:** Developed an AR project for a Canadian apparel client using Java, XML, and Kudan AR SDK to enhance customer experience.
- **QUICK FIX:** Developed a web application for a device repair shop using Laravel, PHP, HTML5, CSS3, and MySQL for managing work requests.
- **Cholo Ek Shathe:** Worked as a Junior Android Developer on a ride-sharing service using Java, XML, and Google Map/Place APIs.
- **Low-Cost Pen Touch Screen Project [IoT]:** Developed a solution to convert any screen into a pen touch screen using specialized software and hardware. (Awarded fifth position at IUT 6th National ICT Fest 2014)

EDUCATION

- 2012 – 2016 **Bachelor of Science in Computer Science & Engineering.**
Daffodil International University, Dhaka, Bangladesh
C.G.P.A 3.14 out of 4.00
- 2008 – 2011 **Higher Secondary School Certificate (H.S.C) (Major in Electrical)**
Rangpur Technical School & College, Rangpur, Bangladesh
Group: Science | Grade: A
- 2006 – 2008 **Secondary School Certificate (S.S.C). (Major in Electrical)**
Dinajpur Technical Training Centre, Dinajpur, Bangladesh
Group: Science | Grade: A

TRAINING & CERTIFICATES

- **Google Project Management: by Google** | Coursera | May 6, 2023
Gained proficiency in key project management methodologies for introductory-level roles, including initiating, planning, and running both traditional and agile projects.
- Workshop on **Spatial Data Analysis and Mapping with SuperMap** | Faculty of Geomatics, Sabaragamuwa University of Sri Lanka | July - August 2021
- **Java** | Belancer | 2016
Training on Basic Java, OOP Basic
- **Web Application Development – DOT NET** | BASIS Institute of Technology & Management (BITM) | 3-month training | 2015
Basic C#, OOP Basic, MS SQL Server, ASP.Net Webform, ASP.Net MVC

AWARDS/ACHIEVEMENTS

- **Tech-Champ Award:** Received at the GCEO Townhall, SMEC, Bangladesh in recognition of the team's work developing GiMS, a cutting-edge Web-GIS platform. | July 2024
- Fifth position at IUT 6th National ICT Fest 2014 for the Low-Cost Pen Touch Screen Project [IOT].
- **Honorable Mention:** ACM-ICPC Asia Dhaka Regional Contest | 2014
- **Honorable Mention:** Daffodil National Collegiate Programming Contest | 2014
- **Certificate of Appreciation:** Bangladesh Freedom Foundation & Daffodil International University | For contribution in '**Promoting Science Education Utilizing Hometown Connectivity of DIU students**' | Jan-Mar 2013

PUBLISHED PAPER

- Co-authored "**Advanced Management System for Education Institutions**" in the International Journal of Scientific & Engineering Research, Volume 7, Issue 2, February 2016

MEMBERSHIP

- The Institution of Engineers, Bangladesh | Membership No: M-43378

EXTRACURRICULAR ACTIVITIES

- Student Prefix of Daffodil International University
- Treasurer of Daffodil International University Photography Society

REFERENCE

Humayun Kabir

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