



# Md Siam Hossain Sarker

**Location:** Dhaka, Bangladesh (open to relocation)

**Software Engineer**

**Bit Mascot (Pvt) Limited, Dhaka, Bangladesh**

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-  <https://www.linkedin.com/in/siam-sarker/>
-  <https://siamsarker.github.io>

## Career Objective

Motivated software professional eager to grow in a forward-thinking company. Committed to honoring technical skills, becoming a versatile software engineer, and contributing to the company's success through hands-on experience and continuous learning. Seeking a challenging role to make a meaningful impact in the field of software development.

## Experience

- Software Engineer at Bit Mascot (Pvt) Limited** [May, 2023 – Present]
  - Designed and implemented scalable RESTful APIs using Laravel and Node.js, adhering to best practices such as the Repository-Service pattern and MVC architecture.
  - Optimized data handling and integration in MySQL and PostgreSQL, ensuring efficient indexing, query optimization, and platform compatibility.
  - Managed geometry and spatial data in databases, optimizing location-based queries using spatial indexes and GIS functions.
  - Automated critical processes with Laravel schedulers and background jobs, enhancing system efficiency.
  - Implemented WebSockets for real-time updates and integrated webhooks for event-driven workflows.
  - Integrated services like SendGrid for email automation and Autobill SDK for secure payment processing.
  - Worked in Agile teams using Jira for task tracking, sprint planning, and cross-functional coordination.
- Grader & Undergraduate Teaching Assistant at United International University, Dhaka.** [Nov, 2021 – May, 2023]  
Structured Programming Language Lab (SPL Lab), Object Oriented Programming Lab (OOP Lab), Database and Management Systems Lab (DBMS Lab), Computer Networks Lab (CN Lab).
- President at UIU App Forum.**
- Developer & Campus Ambassador at BDApps.**
- Research Associate at Institutional Quality Assurance Cell (IQAC), UIU.**

## Education

- Bachelor of Science in Computer Science & Engineering [BSCSE]** [2019 – 2023]  
Institute: United International University, Dhaka  
Result: CGPA 3.90/4.00

## Professional Projects

- Mining Hub Project: JavaScript, NodeJs, ExpressJs, PostgreSQL, Restful APIs.** [Live Link]  
Developed APIs using Node.js for Mining Hub, a platform that manages mining information and locations worldwide.
- Mining Bull Project: Laravel, PHP, Apache, Xampp, MySQL, JSON API, Postman, Jira.** [Live Link]  
Developed APIs and geometric spatial queries using Laravel for the Mining Bull project, an Australian initiative to facilitate streamlined management of mining commodities and company data.
- Reed Graduation: CakePHP, Ajax, JQuery, Javascript, MySQL, CMS portal** [Live Link]  
Developed a graduation service platform for universities using CakePHP, MySQL, and Ajax, implementing the MVC pattern. Built a CMS for managing editable design templates, enabling universities to customize graduation services efficiently.
- Locum West Portal: Laravel, XAMPP, Postman, MySQL, SendGrid, API Development** [Live Link]  
Developed APIs for streamlined hospital-doctor interactions, optimized scheduling, and contributed to user creation, authentication, and email functionality with SendGrid. Tested for reliability and performance using XAMPP and Postman.
- Nintendo Repair and Returns: Laravel, XAMPP, Postman, Autobill SDK, API Development** [Live Link]  
Created APIs for admin, staff & retailer users on the Australian gaming console website, Nintendo Repair and Returns. Implemented using Laravel, XAMPP, Postman, and Autobill SDK for efficient and secure data handling.
- Regional Tech Hub: Laravel, XAMPP, Postman, SendGrid, API Development** [Live Link]  
Developed APIs using Laravel, XAMPP, and Postman for the Regional Tech Hub, an online service dedicated to connecting and supporting regional, rural, and remote Australians with new technologies.

## Skills

- Programming Languages:** PHP, JavaScript, Python, Java, TypeScript, C/C++, HTML, CSS.
- Frameworks & Libraries:** Laravel, CakePHP, NodeJs, ExpressJs, NestJs, React, React Native, jQuery, Ajax, ES6.
- Databases:** MySQL, PostgreSQL, MongoDB.
- Concepts:** Object-oriented Programming, Data Structures, Algorithms, DBMS, Web and App Development, Security.
- Tools & Others:** Docker, Git, Postman, Xdebug, Selenium, LaTeX.

## Academic Projects

- **Decentralized Vehicle Information Storage System: React, JSON API, HTML, CSS, JavaScript** [\[GitHub Link\]](#)  
A Decentralized Vehicle Information Storage System is a system based on blockchain technology that securely stores and manages vehicle data in a decentralized manner.
- **AgroTech e-Market: React-native, NestJs (Mobile App), PHP, MySQL, JavaScript, TypeScript** [\[App-front Link\]](#) [\[App-back Link\]](#) [\[GitHub Link\]](#)  
Created a robust e-commerce website facilitating the purchase and sale of local products. Implemented an innovative bidding system to enhance user engagement and competitive pricing.
- **Railway Reservation: Django, HTML, CSS, JavaScript** [\[GitHub Link\]](#)  
A Django project for train ticket booking and management with search, book, cancel features for users and add/manage routes, stations, and trains for admin.
- **Project Protibaad: AJAX, Selenium Black Box Testing, PHP, MySQL, Xampp, JavaScript** [\[GitHub Link\]](#)  
An online system for crime alerts, reporting missing persons, posting crime updates, and sharing resources.

## Publication

- Anika Khaer, **Md Siam Hossain Sarker**, Proma Hossain Progga, Saniyat Mushrat Lamim and Md. Motaharul Islam. "UAVs in Green Health Care for Energy Efficiency and Real-Time Data Transmission", 6th International Conference on Intelligent Sustainable Systems (ICISS 2023) [\[Paper Link\]](#)
- H. M. Shoaib Hasan, F. A. Ahmad, **Md Siam Hossain Sarker**, A. Khaer and S. Islam, "Car-Story: A Decentralized Vehicle Information Storage System Based on Blockchain," 2024 IEEE Region 10 Symposium (TENSYP) [\[Paper Link\]](#)

## Achievements

- **Award of Distinction in International Blockchain Olympiad (IBCOL) 2023:**  
"Team Unchained"  
6th International Blockchain Olympiad from 15th to 17th of November 2023 in Amsterdam, The Netherlands, EU [\[Team Certificate\]](#) [\[Participation Certificate\]](#)
- **International Collegiate Programming Contest (ICPC):**  
Participant, Team Songshoptok, 2022 ICPC Asia Dhaka Preliminary Contest, February 10th-11th, 2023. [\[Certificate Link\]](#)  
Honorable Mention, Team CodeSpeed, 2021 ICPC Asia Dhaka Preliminary Contest, April 7th, 2021. [\[Certificate Link\]](#)  
Honorable Mention, Team BRUTE FORCE, 2020 ICPC Asia Dhaka Preliminary Contest, July 19th – September 28th, 2019. [\[Certificate Link\]](#)
- **Halt Prize 2022:**  
1st Runner-up at Halt Prize, March 11th, 2022 at United International University. [\[Certificate Link\]](#)  
Competitor in the 2022 Hult Prize Islamabad Regional Summit Hosted on May 20th – 21st, 2022 [\[Certificate Link\]](#)
- **Runner-up at CSE Project Show, Fall'21:** System Analysis and Design Lab. [\[Certificate Link\]](#)
- **Runner-up at CSE Project Show, Spring'22:** Software Engineering Lab. [\[Certificate Link\]](#)
- **Academic Scholarships:** 100% (3 times), 50% (6 times), 25% (2 times) tuition-fee discount at UIU.

## Workshops & Certification

- **Python for Everybody Specialization - Coursera** [\[Credential Link\]](#)  
Programming for Everybody (Getting Started with Python), Python Data Structures, Using Databases with Python, Capstone: Retrieving, Processing, and Visualizing Data with Python and Using Python to Access Web Data  
Issued Jul 2020
- **Introduction to Computer Programming - Coursera**, Issued May 2020 [\[Credential Link\]](#)
- **Introduction to Cloud Development with HTML, CSS, and JavaScript - edX**, Issued April 2022 [\[Credential Link\]](#)
- **Responsive Web Design - freeCodeCamp**, Issued Feb 2022 [\[Credential Link\]](#)
- **PCAP: Programming Essentials in Python - Cisco Networking Academy**, Issued Jul 2020 [\[Certificate Link\]](#)
- **Organizer of Space Innovation Camp - Bangladesh Innovation Forum**, Oct 10, 2019 – Oct 12, 2019 [\[Certificate Link\]](#)

## Membership

- **EMK Center** - General Member [\[Nov, 2018 – Present\]](#)
- **IEEE Membership** - Student Member [\[Dec, 2020 – Dec, 2021\]](#)

## References

- **Dr. Salekul Islam, Ph.D.**  
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United International University.  
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- **Dr. Md. Motaharul Islam, Ph.D.**  
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