Md Siam Hossain Sarker

Software Engineer
Bit Mascot (Pvt) Limited, Dhaka, Bangladesh

BSc in Computer Science & Engineering
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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]**
  - **Mining Bull Project:** Developed Laravel APIs for managing Australian mining data, using Repository-Service pattern, Laravel schedulers, Apache, and MySQL; collaborated via Jira.
  - **Reed Graduation:** Built a graduation service platform with a CMS for universities using CakePHP, MySQL, and Ajax, following the MVC pattern.
  - **Locum West Portal:** Designed Laravel APIs with shift scheduling, eligibility management, and hospital-doctor interactions, utilizing Repository-Service pattern, Laravel schedulers, socket services, and SendGrid.
  - **Nintendo Repair and Returns:** Built Laravel APIs for return and claim requests, integrating SendGrid, Autobill SDK, Laravel schedulers, and socket services for real-time updates.
  - **Regional Tech Hub:** Created Laravel APIs to display network availability for remote Australians, leveraging SendGrid for emails and tested with XAMPP and Postman.
- **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.**
- **R&D Associate at Students' International Affairs Society (SIAS), UIU.**
- **Convenor, BASIS UIU Chapter.**

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 Bull Project: Laravel, PHP, Apache, Xampp, MySQL, JSON API, Vue JS, Postman, Jira.**   **[Live Link]**
  Developed APIs using Laravel for Mining Bull, an Australian project at Bit Mascot (Pvt) Limited, facilitating 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, NestJS, Django, React, React-native, jQuery, Ajax, ES6.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **Concepts:** Object Oriented Programming, Data Structures, Algorithms, RDBMS, Web and App Development.
- **Others:** Git & GitHub, BitBucket, Jira, Xdebug, Postman, XAMPP, LaTeX, Selenium etc.

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]
  Created a robust e-commerce website facilitating the purchase and sale of local products. Implemented an   **[GitHub Link]**
  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.   **[Paper Link]**
  Motaharul Islam. "**UAVs in Green Health Care for Energy Efficiency and Real-Time Data Transmission**", 6th International Conference on Intelligent Sustainable Systems (ICISS 2023)
- H. M. Shoaib Hasan, F. A. Ahmad, **Md Siam Hossain Sarker**, A. Khaer and S. Islam, "**Car-Story:**   **[Paper Link]**
  A Decentralized Vehicle Information Storage System Based on Blockchain," 2024 IEEE Region 10 Symposium (TENSYMP)

Achievements

- **Award of Distinction in International Blockchain Olympiad (IBCOL) 2023:**   **[Team Certificate]**
  "Team Unchained"   **[Participation Certificate]**
  6th International Blockchain Olympiad from 15th to 17th of November 2023
  in Amsterdam, The Netherlands, EU
- **International Collegiate Programming Contest (ICPC):**
  Participant, Team Songshoptok, 2022 ICPC Asia Dhaka Preliminary Contest, February 10th-11th, 2023.
  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 –   **[Certificate Link]**
  September 28th, 2019.
- **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.**
  Professor & Director - IQAC,
  Dept. of CSE,
  United International University.
  Email: salekul@cse.uiu.ac.bd

- **Dr. Md. Motaharul Islam, Ph.D.**
  Professor & Director - MSCSE,
  Dept. of CSE,
  United International University.
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