Abrar Jahin

CONTACT

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github.com/AbrarJahin

stackoverflow.com/users/219343/abrar-jahin

leetcode.com/abrarjahin

TECHNICAL SKILLS

1. ASP.Net Core – Advanced
2. SQL - Intermediate
3. React – Intermediate
4. PHP Laravel – Intermediate
5. Java Spring Boot – Basic
6. Python – Intermediate

TECHNOLOGIES

1. Machine Learning
2. Web Server Management in Linux
3. Web Socket (SignalR)
4. Digital Signature (BouncyCastle)
5. Map (Google map and OpenStreetMap)

OTHER SKILLS AND INTERESTS

1. System Designing
2. Problem Solving – solved **500+** problems in Leetcode
3. Open-source contribution – contributed into some open-source projects (one of them is this one having **1.5k+ star** in Github)
4. **Achieved 12.5k+ points** in StackOverflow and one of the **top 3%** contributors of **all time**

CERTIFICATIONS

1. IBM Applied Data Science (link)
2. IBM Data Science (link)
3. Machine Learning (Stanford Online) (link)

WORK EXPERIENCE

Graduate Research Assistant (Data Science) at Indiana University–Purdue University, Indianapolis, USA
2021/02 - Present

1. **Architected** and developed website for data collection for creating ML based learning recommender system using **ASP.Net Core**, **PostGRE** and **React.js** which improved data collection and modification process **faster by 4X** (address- csknowledgegraph.org).
2. Building **CNN and Graph Neural Network based "Learning Recommender System"** for helping schoolteachers in USA learning Computer Science easily with Python (**TensorFlow 2, Keras and Spektral**) which will help **thousands of teachers in USA** (ongoing).
3. Building national intelligent alert system for preventing minority oppression for improving life of **thousands minority in USA** with Python (**TensorFlow 2**) (ongoing).

Lead Software Engineer (Consultant) at Bangladesh Computer Council (BCC), Dhaka, Bangladesh
2019/08 – 2021/01

1. **Architected and developed** digital (cryptographic) signing system (PDF and XML) with ASP.Net Core for Bangladesh Police and other BD Gov. organizations for improving lifestyle of *160+ millions of people* in Bangladesh (demo can be found in this link).
2. Improved digital KYC system and digital payment system for BD Govt. resolved KYC problem of BD govt with facial recognition system which improves task speed to **5X**.
3. Improved Bangladesh national security system by **analyzing Facebook feed** with some AI based tools using R.

IT Engineer at University of Barisal, Bangladesh
2017/05 – 2019/08

1. Improved university management system by developing web-based ERP with ASP.Net Core and Angular 2 which **improved work speed** by 3X by removing manual tasks.
2. Resolved analog data conversion problem with **CNN based OCR** implemented with Python which increased work speed by 2X.
3. Modernized subject recommending system for students using Python and ASP.Net Core which helped over 8000 students choosing appropriate academic subjects.

Software Engineer at ReliSource, Dhaka, Bangladesh
2016/11 – 2017/05

1. Improved legacy codebase of one of the USA's prominent **large-scale clinical trial management system** for updating features and improving performance by 1.5X based on ASP.Net, AngularJS, SignalR.
2. Built an online real-time remote conferencing system demo for client based on ASP.Net Core, SignalR and Web RTC aiming 3 million+ customers with load balancing.

Junior Software Engineer at Nascenia IT, Bangladesh
2016/02 – 2016/11

1. Improved performance of a Web Socket based real time messaging system existing in an intranet by 3X by **improving architecture** for **Telenor Sweden**.
2. Built a web-based admin panel for managing real time messages and connected real-time online users using ASP.Net Core and SignalR.

Intern at Samsung R&D Institute Bangladesh (SRBD), Dhaka, Bangladesh
2013/11 – 2014/01

1. Built an internal management system with PHP, MySQL, jQuery and android which improved work speed by 2X.

EDUCATION

Indiana University–Purdue University Indianapolis, Indiana, USA
Master of Science in Computer and Information Science (*Expected December, 2022*)

Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering