

# Abrar Jahin

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## Profile Summery

Accomplished **6+ years of experience** in different software development companies and teams where I have solved numerous types of problems efficiently. I have a wide range of skills in **System Design, Distributed Systems, Software Designing, Database Design, Backend and Front-end development**.

## Work Experience

### Purdue School of Engineering and Technology

Graduate Research Assistant - Data Science Research Team

Indianapolis, IN, USA

February 2021 – Present

1. Architected, developed, and deployed a website (in AWS) for data collection due to creating ML based learning recommender system using **ASP.Net Core, PostGRE** and **React.js** which improved the Graph Data collection and modification process faster by **4X** (address- [csknowledgegraph.org](https://csknowledgegraph.org)).
2. Building **CNN and Graph Neural Network based "Learning Recommender System"** for assisting school teachers of USA learning Computer Science easily with Python (**TensorFlow 2, Keras, CNN, BiLSTM etc.**) which will help **thousands of people** (ongoing, code can be found in [this link](#)).
1. Building a "National Intelligent Alert System" for preventing hate crime for improving the lifestyle of thousands minority in USA with Python (TensorFlow 2) (ongoing).

### Bangladesh Computer Council (BCC)

Lead Software Engineer (Consultant) - Certificate Authority Solution Team

Dhaka, Bangladesh

August 2019 – January 2021

1. **Architected and developed** a digital (**cryptographic**) **cross-platform** browser-based **plug and play** signing system (PDF and XML) with **ASP.Net Core** for Bangladesh Police and other Bangladesh Gov. organizations which made life easier and faster for **160+ million people** in Bangladesh (demo can be found in here - [opensigner.bcc-ca.gov.bd](https://opensigner.bcc-ca.gov.bd)).
2. Architected, developed, and optimized code for the security backend of the cloud drive for Bangladesh Government employees (website link- [drive.egovcloud.gov.bd](https://drive.egovcloud.gov.bd)) which has currently more than **50k users** with **PHP Laravel, jQuery** and **LDAP**.
3. Project management for improving digital KYC (Know Your Customer) system and digital payment system for Bangladesh Govt. resolved KYC problem of BD govt with **artificial intelligent** facial recognition system (based on **Python OpenCV**) which improves task speed to **5X** where API, web interface and admin panel was developed with **Java Spring Boot** and **jQuery** ([bcc-ca.gov.bd](https://bcc-ca.gov.bd)).
4. Managed a project for improving Bangladesh's national security system with **information retrieval** by **analyzing Facebook feed** with some AI-based tools using **R** based tool.

### University of Barisal

IT Engineer (Development) – Software Development Team

Barisal, Bangladesh

May 2017 – August 2019

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. Modernized subject recommending system for students using **Python** and **Java Spring Boot** which helped **over 8000 students** determine appropriate academic subjects based on **user-based k-nearest neighbor** algorithm.
3. Resolved analog data conversion problem with **CNN based OCR** implemented with **Python** which increased work speed by **2X**.

### ReliSource Technologies Ltd.

Software Engineer – Web and API Development Team

Dhaka, Bangladesh

November 2016 – June 2017

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

Nascenia IT  
Junior Software Engineer – Web Development Team

Dhaka, Bangladesh  
February 2016 – November 2016

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

Upwork  
Professional Freelancer – Web Development Projects

Dhaka, Bangladesh  
July 2014 – February 2016

1. Worked as one of the top web-development freelance in Bangladesh with 100% customer satisfaction with 100% job success.
2. Profile link- [upwork.com/freelancers/abrarjahin2](https://www.upwork.com/freelancers/abrarjahin2) .

Samsung R&D Institute Bangladesh (SRBD)  
Intern – Solutions Team

Dhaka, Bangladesh  
November 2013 – January 2014

- Developed API for an internal management system with PHP, MySQL, jQuery and android which improved work speed by 2X.

## Skills

**Languages and Frameworks:** ASP.Net Core (Advanced), Java Spring Boot (Intermediate), PHP Laravel (Intermediate), Python (Intermediate), SQL [MsSQL, MySQL & PostgreSQL] (Intermediate), React (Intermediate), Angular (Intermediate)

**Technologies:** AWS, Docker, Jenkins, Apache Kafka, Web Server Management in Linux, Web Socket (SignalR), Digital Signature (BouncyCastle), Machine Learning, Data Visualization, Map (Google map), JIRA, Bash, Git

**Other:** System Designing, Microservices, Good Communicator

## Education

Purdue School of Engineering (Expected December 2022)  
Master of Science in Computer and Information Science

Indianapolis, IN, USA  
January 2021 - December 2022

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

Dhaka, Bangladesh  
January 2010 - September 2015

## Certifications and Outstanding Open-source Works

### ○ Certifications

- a. IBM Applied Data Science ([link](#))
- b. IBM Data Science ([link](#))
- c. Machine Learning (Stanford Online) ([link](#))

### ○ Outstanding Open-source projects contributed by me

- a. This **ASP.Net Core** with **Angular Universal** project is the **2<sup>nd</sup> most popular** collaborative angular universal repository on the internet having **more than 1.5k stars** where I am the **3<sup>rd</sup> largest contributor**- [github.com/TrilonIO/aspnetcore-angular-universal](https://github.com/TrilonIO/aspnetcore-angular-universal)
- b. I am also the **3<sup>rd</sup> largest contributor** of this **Google repo based on WebRTC** having **650+ stars** - [github.com/googlecode/abrar-jahin](https://github.com/googlecode/abrar-jahin)

### ○ Online Profiles

- a. LinkedIn- [linkedin.com/in/ajahin](https://www.linkedin.com/in/ajahin)
- b. Contributed to many open-source projects on Github - [github.com/abrarjahin](https://github.com/abrarjahin)
- c. **Problem Solving** - Solved **500+ problems** in Leetcode - [leetcode.com/abrarjahin](https://leetcode.com/abrarjahin)
- d. **Top 3% overall in all developers** in Stackoverflow earned 13k+ points and helped millions of developers- [stackoverflow.com/users/2193439/abrar-jahin](https://stackoverflow.com/users/2193439/abrar-jahin)