Abrar Jahin

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Profile Summary

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**.

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)   Indianapolis, IN, USA
Master of Science in Computer and Information Science   January 2021 - December 2022

Bangladesh University of Engineering and Technology   Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering   January 2010 - September 2015

Work Experience

Purdue School of Engineering and Technology   Indianapolis, IN, USA

Graduate Research Assistant - Data Science Research Team   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).
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)   Dhaka, Bangladesh
Lead Software Engineer (Consultant) - Certificate Authority Solution Team   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, React.js, jQuery** 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).
2. Architected, developed, and optimized code for the security backend of the cloud drive for Bangladesh Government employees (website link- 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).
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   Barisal, Bangladesh
IT Engineer (Development) – Software Development Team   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 .

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**.

Certifications

- ✓ Securing Containers and Kubernetes Ecosystem (link)
- ✓ Apache Kafka Essential Training: Building Scalable Applications (link)
- ✓ Running Jenkins on AWS (link)
- ✓ IBM Applied Data Science (link)
- ✓ IBM Data Science (link)
- ✓ Machine Learning (Stanford Online) (link)

Outstanding Open-source Works

- ○ Outstanding Open-source projects contributed by me
  a. This **ASP.Net Core** with **Angular Universal** project is the **2nd most popular** collaborative angular universal repository on the internet having **more than 1.5k stars** where I am the 3rd largest contributor- github.com/TrilonIO/aspnetcore-angular-universal
  b. I am also the 3rd largest contributor of this **Google repo based on WebRTC** having **650+ stars** - github.com/googlecodelabs/webrtc-web
  c. 100+ open-source contributions in Github

- ○ Online Profiles
  a. LinkedIn- linkedin.com/in/ajahin
  b. Contributed to many open-source projects on Github - github.com/AbrarJahin
  c. **Problem Solving -** Solved **500+ problems** in Leetcode - 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