

Akash Chandra Debnath

Email : akash2513@student.nstu.edu.bd

Mobile : 01681743259

LinkedIn : [linkedin.com/in/akash-chandra-debnath-513125215/](https://www.linkedin.com/in/akash-chandra-debnath-513125215/)

Github : <https://github.com/Akash-debnath/>

Address : Binodpur, Sadar, Noakhali.



Objectives

I have the self-assurance to work on any dynamic project, desire to take on any challenging project, and the expertise to solve many problems in the real world. I am very adaptable and can work well in teams or alone. I prefer to work based on web applications or API. Due to work with more complex real-world problems, I want to learn a wide range of components.

Academic Qualification

Exam Title	Group	Institute	Result	Pass. Year
Bachelor of Science in Software Engineering	IIT	Noakhali Science & Technology University	CGPA: 3.65 out of 4	2023
HSC	Science	Noakhali Govt. College	CGPA: 4.92 out of 5	2017
SSC	Science	Benodpur High School	CGPA: 5 out of 5	2015

Industry Experience

Company Name	:	Genuity System Ltd. (Dhaka, Bangladesh)
Designation	:	Software Engineer (Full Stack Web Developer)
Job Type	:	Contractual
Duration	:	10 March 2022 – 12 March 2023 (12 months)

Works Experience [projects]

- **News Portal** [Web-based application with Federated Learning Implementation]
Description: This news portal I developed for my University. With this application the editor, publisher can write articles and can post latest and interesting articles by grouping with the related categories which are created by management. There have many roles (management, admin, editor, publisher, writer, user) as need with different permissions as their role. The most interesting part of this system is it has a secure recommendation system which is developed and architected by the concept of federated learning with defending model poisoning attack. I termed this secure algorithm as “FedLearntRecommender”. Principally, the objectives of this project is indicators and proof of my research stability and implementation.
Needed : Python, PHP, Laravel, Javascript, HTML, CSS, Tailwind, Bootstrap, JQuery, Livewire, Eloquent.

- **Knowledge Based System** [Web-based application]
Description : It is made for IFIC bank which is built for online exam system. This is a well organized application. Here, an user can sign in with some credentials & then can participate in quizzes made by admin panel and can read article, comments in the posts. There are many functionality user go through over it and use. In this system admin panel is created so flexibly. Admin can manage menus dynamically from his simple UI, admin can customize pages, configure outfit, alignment, create post, schema and can see users number, posts, quizzes and also visual graph for percept their improvements. There have so many functionality.
Needed : PHP, Laravel, Javascript, HTML, CSS, SASS, Bootstrap, JQuery, Vuejs, Eloquent

- **Employee Management System** [Web-based application]
Description: It is an well organized and wonderfully decorated application created for my organization (Genuity System Ltd). This application manages employees all information, unique profile and dashboard for all employees as their role in organization, evaluations of employee, grade updation after promotion, late/early office request, office time scheduling, roster duty, attendance count and also duration, leave request approval, new employee admit and attachment, notice, policy, holiday, permission, privilege, incident, note, notice, job description for individual employee can create, view, edit, delete by access role of each employee and auto-mail to related departments or individuals or all. The system can generate leave report of any year or all years at a glance with leave type, attendance report, evaluation report, archive employees record etc.
Needed : PHP, Laravel, Javascript, HTML, CSS, SASS, Bootstrap, JQuery, Eloquent, MySQL.

- **Contact Center** [Web-based application]
This is a large project with billions line of code. This application is using by Robi Axiata Ltd, Airtel and 25-27 banks of Bangladesh. I’ve contributed to the project. I worked for Robi - Airtel social management for agent. Their agent can reply Facebook and Instagram messages and comments with & without bot replies.

The admin recorded and generate report about agent service and make report of their replies time, waiting time, total comments, concern of customer, interest of customers etc.

Needed : PHP (raw with custom functions), HTML, CSS, SQL.

- **NCR** [Web-based application]

Description: This is aimed to facile course registration (online) for Noakhali Science and Technology University (NSTU). It has seven modules for education branch, chairman, course coordinator, section officer, hall provost, registrar and student. Section officers apply to education branch for course registration on behalf of their related department and after accepting request, students will able to fill up their form which is an automatic process. Student(s) only need to submit the form and then when co-ordinator, hall provost and chairman approved his/her form, the student will have to deposit fees to the university bank account.

Student can download his/her receipt by the application.

Needed : PHP, JavaScript, HTML, CSS, Bootstrap, MySQL.

- **Eshop** [Web-based Application]

Description: It's an e-commerce platform built for selling and buying materials through online. Any people with a valid email/phone can register themselves by providing email and a new username and a password. They'll be able to search any product by category or product name, and they can add to cart of their preferred items. They can change the quantity or remove any item from the cart. Then they proceed their purchase by online payment (Bkash, Rocket, Nagad). Admin will check whether the purchase request is valid or not and if the request is valid, admin will approve the purchase request.

Needed : PHP, JavaScript, HTML, CSS, Bootstrap, MySQL.

- **Lan chat and file sharing** [Web-based application]

Description : It is aimed to communicate through our Institute of Information Technology (IIT) for sending file or information without using internet for confidentiality and integrity. Firstly, everyone in the institute have to register and they will log in through their username/email and password. They're able to chat in a group or privately with an individual. Anyone can send files and the receiver(s) able to download these files.

Needed : Java, Jsp, Servlet, Tomcat library and MySQL.

- **Flappy Bird** [Desktop Application]

Description : It is a game application. There has a bird and many bars which is dynamic and wall surrounded to a moving bird. The score will increased how long the bird'll alive, alive means that the bird will be moving without touching any bars or wall. If the bird crashed to any bars or touched wall, the game will be finished. There are three levels (low, medium, high) by complexity.

Needed : Java swing.

Language Proficiency

Language	Reading	Writing	Speaking
English	High	High	Medium
Bangla	High	High	High

Curricular Activities

- I've joined programming contest by CSTE Club, NSTU and our team ranked 7th position. [In 2019]
- I'm selected as an Examiner of Elite Club, Benodpur, Noakhali. I am holding this position for three years. The motive of our club is organize competitive quiz contest to create interest to gain knowledge as we adorn (prizes) for winner contestant and the club targets village students who're lagging behind.
- I am president of Saraswati Puja Committee, Benodpur, Noakhali from 2018 to till. Through this I have earned leading power surprisingly.

Professional Certification

Certification	Organization	From	To
Web Design	IIT, NSTU	05 January 2018	30 April 2018
Web Development	IIT, NSTU	01 September 2018	30 December 2018
Data Scientist using R	Coursera	10 July 2020	12 September 2020
Spoken English	S@ifur's	01 April 2015	30 June 2015

Fields of Specialization

- ❖ High computer skill
- ❖ **Language:** C, Java, JavaScript, jQuery, R, Python, PHP, HTML, CSS, MySQL, Eloquent(ORM), PDO
- ❖ **Framework:** Laravel, Livewire, Vue.js, Node.js, Bootstrap, Tailwind
- ❖ **Tool:** Postman, Docker
- ❖ **Others:** RESTful API

Hobbies

Travel, photography, learning new things and writing about my daily life experience.

Research Interest

Federated learning - It is a machine learning approach that enables the training of models on decentralized data without compromising the privacy of the data owners. I have been examining how to develop methods for preserving privacy in federated learning.

Personal Details

Father's Name : Shatta Ranjon Nath
Mother's Name : Shandha Rani Nata
Date of Birth : August 01, 1999
Gender : Male
Marital Status : Unmarried
Nationality : Bangladeshi
Religion : Hindu
Permanent Address : Chandra Moni Sarkar Bari, Village - Benodpur, Post - Benodpur
(3800), Upazilla- Noakhali Sadar, District - Noakhali.
Current Location : Same as above

Reference(s)

	<u>Reference-1</u>	<u>Reference-2</u>
Name	: Md. Auhidur Rahman	Md. Iftekharul Alam Efat
Organization	: IIT, NSTU	IIT, NSTU
Designation	: Assistant Professor	Assistant Professor
Mobile (personal)	: 01815662160	01727208174
E-Mail	: auhidsumon@nstu.edu.bd	iftekhar.iit@nstu.edu.bd
Relation	: Academic	Academic

	<u>Reference-3</u>
Name	: Protap Singh Jackey
Organization	: Genuity System Ltd.
Designation	: Software Engineer (Permanent)
Mobile	: 01983772354
E-mail	: protap@genusys.us
Relation	: Organizational

(Akash Chandra Debnath)