Farjana Bintay Kamal

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 LinkedIn GitHub

 Thunder Bay, Ontario (Willing to relocate)

Skills and Expertise

- 8 years of experience in Python, C#, C, C++, SQL programming, PHP, MS Suite (Microsoft Word, Excel, VBA, Macros, Access), HTML, JavaScript, ASP.NET Web Forms and CSS.
- 6 years of experience in using Android Studio, Python, and Gurobi Python Modeling
- 5 years of experience with machine learning and deep learning engineering for analyzing real-life problems.
- 5 years experience in developing data models and data visualization techniques for charts and reports, i.e laTex.
- 4 years of experience in Linux environment using bash, Tableau, MATLAB, shell, Git,and High-performance computing (HPC).

Work Experience

Graduate Assistant   2019–2020
Lakehead University, Thunder Bay, ON, Canada

- Worked on multiple state-of-the-art machine learning and deep learning projects with Python that utilizes frameworks and libraries such as Pytorch, Keras, Tensorflow, Pandas, Dataframe, Scikit-learn, NumPy, and Big-data tools.
- Worked with command-line tools like bash and ssh in a Linux and Windows environment.
- Conducted lab sessions on "C Programming Language" for undergraduate students. And responsible to help the students by giving them a brief about the problems they need to solve, demonstrating to them the method for solving the problem, and guiding and monitoring the students throughout the session.
- Provided support to the instructor by reviewing the lab works and assignments and then evaluating them.
- Scheduled meetings with students and was available for them to reach within the allotted time frame with their problems regarding the course material, and advised accordingly.

Assistant Lecturer   2019
International Islamic University Chittagong, Chittagong, Bangladesh

- Conducted research and lab classes on "Computer Networks" and "Computer Simulation and Modeling" for thesis students.
- Invigilated the final exams and evaluated enrolled students for the courses.
- Constantly adjusted teaching methods according to each student's individual need
- Monitored a new teaching assistant, guided her, and provided feedback regarding lab sessions.

Trainee   2017
Robi Axiata, Dhaka, Bangladesh

- Worked with the operational team for 15 days. During this period, learned about GSM, and the working procedure of the team. The project manager was extremely pleased with my work since I could take good initiatives and also I could connect well with my client to fulfill all the requirements.

Education

Post Graduation Diploma   2021–2022
Confederation College, Thunder Bay, ON, Canada

- Impactful courses: Advanced Database Design SQL, WEB Design Development I-III, OOP with NET I, ASP.NET

Bachelor of Science in Computer Science and Engineering   2015–2018
Chittagong University of Engineering Technology, Bangladesh

- Thesis Title: A Pedestrian Detection Method Based On HOG-LBP Features And SVM Classifier

- Awards and Scholarships: Merit Entrance Award, Semester Scholarship (2015-2018)

Projects

- *CuisineDelight:* Developed a responsive dynamic website in the "ASP.NET" course. This is a catering website that is developed using C#, SQL, and ASP.NET Webforms. By using the website users can order food from the different caterers, and also can be registered as a caterer.

- *Shanice Portfolio:* Integrated a static personal website to a dynamic WordPress theme. The content can be easily changed as website pages are integrated as WordPress pages and posts.

- *BookXchange:* Used HTML, CSS, PHP, SQL, and Bootstrap to create a responsive dynamic website in the "Web Development" course. The website's objective is to allow users to register and exchange books with one another. Guest users can look at different books, but only registered users can see the details of other users who have enlisted the book and contact them to exchange their favorites.

- *Calculator:* Created an application with C# that allows the user to perform the following arithmetic calculations (+, -, *, /, and %) between two numbers, then display the history in a list, and allow to store the history in a file.

- *Tbay Travels:* In the "Web Development" course, I used HTML and CSS to create a responsive static website. This website allows users to view all of the tourist attractions in Thunder Bay as well as the many restaurant menus. The user can read reviews left by past visitors to such locations. Furthermore, they have access to many food reviews.

- *Advisor Assistant:* An android application was developed in the "Software Engineering" course by using MySQL, PHP, JAVA, and XML. The user is primarily the students' advisor and the students themselves. The adviser can view all of the students' previous grades and provide them with advice on how to improve.

- *Train Ticket Booking:* An android application was developed in the "Database Management" course by using MySQL, PHP, JAVA, and XML. With the help of this application, users can book a train ticket online in Bangladesh.

Publications

- "Assisting the Non-invasive Diagnosis of Liver Fibrosis Stages using Machine Learning Methods", IEEE Engineering in Medicine and Biology Society (2020)

- "Human Detection Based on HOG-LBP for Monitoring Sterile Zone", International Conference on Electrical, Computer and Communication Engineering (ECCE), Bangladesh (2019)

Extra Curricular Activities

- *Organized:* CAN-CWIC:The ACM Canadian Celebration of Women in Computing conference, 2019

- *Organized And Volunteered:* The 2nd International Conference on ECCE, Bangladesh, 2019

- *Organized:* Meet the Professional (A Software Engineering Workshop), Bangladesh 2018

- *Organized:* The annual function of CSE FEST, CUET, Bangladesh, 2018

- *Analyzed:* The system of Dutch Bangla Bank Ltd, Chittagong, Bangladesh, 2017

- *Organized:* National Girls Programming Contest (NGPC), Dhaka, Bangladesh, 2015