H. M. Rafi Hasan

Software Engineer

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I am seeking an opportunity to be part of a progressive organization that will give me scope to enhance my

knowledge and skills. And participate as a team member in a dynamic work environment to achieve team's goal. Also want to gain ability to cope up with the changing environment.

# EXPERIENCE

**Machine Xtreme LLC –** *Software Engineer*

November 2020 – Present

**Role:**

* Develop RESTful web services
* Develop web applications
* Responsive web design
* PSD to HTML
* Managing both frontend and backend with JavaScript, jQuery, Bootstrap and Django
* Graphics design with Adobe Photoshop and Illustrator

**AAmar Taka –** *Junior Python Developer*

**Company website** [**-** https://aamartaka.com/](https://aamartaka.com/)

February 2020 – October 2020

**Role:**

* Develop RESTful web services
* Develop web applications
* Responsive web design
* PSD to HTML
* Managing both frontend and backend with Bootstrap and Django

**Daffodil Software Limited -** *Machine Learning and Software Engineer Apprentice*

**Company website** [**-** h](https://aamartaka.com/)ttp://daffodilsoft.com/

May 2019 - January 2020

**Role:**

* Develop Web Applications and RESTful web services
* Machine Learning model
* Integrate machine learning model in web application

# SKILLS

* **Programming language:** C, C++, Python, php, JavaScript, jQuery, Ajax.
* **Library:** Selenium, Scrapy, BeautifulSoup, TensorFlow, OpenCV.
* **Algorithms:** CNN, RNN, Forecasting Algorithms, YOLO, Clustering Algorithms,
*  **Data Science:** Machine Learning, Deep Learning, NLP.
* **Frameworks:** Django, Flask.
* **Django:** Django Rest Framework, PDFkit.
* **Database:** PostgreSQL, MySQL, SQLite.
* **Software Engineering:** Algorithms, Data structures, OOP, Design Patterns, SOLID Principals.
* **Testing:** Pytest, Postman.
* **Version Control:** Git, Gitlab.
* **Others:** Vagrant, Use-case diagram, E-R diagram.

# Publication

Research Paper on **'Machine Learning Algorithms for Students Performance Prediction'** Paper has been Accepted and Going to published from ICCCNT 2019 conference of IEEE in IIT, Kanpur, India.

**Research paper link**[: https://ieeexplore.ieee.org/document/8944629](https://ieeexplore.ieee.org/document/8944629)

# SIGNIFICANT PROFESSIONAL PROJECTS

## RS-Group Corporate Site and Investor Tracking System (WebApp)

* Corporate Web Application for Rs Group and for the investors of RS Group where investors can check their share, invested money, accounts history, up and down rate of share
* **Responsibilities:** Developed and deployed the web app.
* **Technology Used:** Django Restful API, Bootstrap, JavaScript and jQuery.

● **Live Project Link:** [RS Group-RS Dairy And Agro Foods Industries Ltd. (rsgroup-bd.com)](http://www.rsgroup-bd.com/)

## AAamar taka web service (WebApp)

* Aamartaka serves the customer by displaying various loan, credit card and deposit offers of all the banks in their website. This makes financial decision easy for any customer as they can choose the best deal from variety of offers. After a customer chooses an offer, Aamartaka assists the customer in getting the loan by advising them on all necessary issues while providing free home service in documentation processing.
* **Responsibilities:** Developed some features in the backend with Django rest API. One of the contributors of this project.
* **Technology Used:** Django Restful API, Bootstrap, JavaScript and jQuery, React.js.  ● **Live Project Link:** https://aamartaka.com

## E-Application Form for Southeast Bank Ltd & IPDC Finance Limited (WebApp)

* Credit card, Loan and insurance application form for customers. Where any one can compare which, financial plan is better for them.In this application user can apply for loan, credit card etc. by filling up application form and which will also generate pdf version of the application form.
* **Responsibilities:** Develop backend with Django rest API**,** Design the application from PSD.
* **Technology Used:** Django Restful API, Bootstrap, JavaScript, jQuery and PostgreSQL.
* **Live project Link** [**:** https://aamartaka.com/credit-card-eligibility](https://aamartaka.com/credit-card-eligibility)

**Daily Shoji** **(WebApp)**

* Daily Shoji is an organic goods-based ecommerce site where people can purchase vegetables and veg products.
* **Responsibilities:** Responsive web design, develop backend with Django rest API. One of the contributors of this project.Develop custom admin panel.
* **Technology Used:** Django Restful API, Bootstrap, JavaScript, jQuery, ReactJS and PostgreSQL**.**
* **Live project Link :**<https://www.dailyshobji.com/>

## Students Performance Prediction Using Machine Learning (AI/ML)

* Machine Learning project that predicts student’s future performance using KNN, decision tree predictive model. I did this project with Dr. Syed Akhter Hossain (Head of CSE Department of Daffodil International University) for 10th ICCCNT in IIT Kanpur.
* **Responsibilities:**Developed the prediction model. Integrated the model in a web application. Wrote the research paper.
* **Technology Used:** Deep Learning, Django, Bootstrap, JavaScript
* **Source Code :** [Data-Science-work/Students-Performance.ipynb at master · rafi7050/Data-Science-work (github.com)](https://github.com/rafi7050/Data-Science-work/blob/master/Students-Performance.ipynb)

## Dropout Solution Using Machine Learning (AI/ML)

* Student database to analyze student data. To predict the student dropout reasons and to guide them to success using AI. Product of Daffodil Software Limited.
* Responsibilities: developed API and integration. Create dataset.
* **Technology Used:** Deep Learning, NLP, python.

**E- Doctor Management** (Multi-Vendor System)- A product of Machinextream LLC.

* A web application for Doctors to treat patient remotely. Manage appointment system. Digital prescription creates.
* **Responsibilities:** implemented new features and fixed bugs
* **Technology Used:** jQuery, Django, MySQL, CSS, HTML, Facebook messenger plugins.
* **Live Project Link:**<http://www.dochub24.com/>
* **Source Code :** [https://github.com/rafi7050/E-Doctor-Appointment-Hospital-Management-ByDjango/](https://github.com/rafi7050/E-Doctor-Appointment-Hospital-Management-By-Django/)

**CANCER REGISTRY**

**(WebApp)**

● This project purpose is to store data of cancer affected people and can do analysis on the data.

* **Responsibilities:** To build RST API, design database, design and develop frontend.
* **Technology Used:** Bootstrap, Django, Django Restful API.

## News Portal (WebApp)

* Online news portal similar to Dhaka Tribune.
* **Responsibilities:**Built the frontend. Implement new features and improvised on UI.
* **Technology Used:** Django, JavaScript, and jQuery.
* **Source code :**<https://github.com/rafi7050/Online-News-portal>

## Chabot (WebApp)

* E-shop Chabot.
* **Responsibilities:**developed API and integration. Dataset create.
* **Technology Used:** Deep Learning, NLP, Django, Django channels, Bootstrap, JavaScript.
* **Source code :** <https://github.com/rafi7050/Chatbot-Using-TFID-COSINE>

# TRAINING

* **Skill Jobs:** Professional Training on Web Development with Python (Django) from Skill.jobs of 120 hours of course work.
* **Udemy:** Full stack web development with AI & ML integration by Ahmad Mohsin.
* **Udemy:** Applied Deep Learning: Build a chatbot - Theory, Application.
* **Coursera:** Specialized Deep Leaning Couse.

# PORTFOLIO

* GitHub link: <https://github.com/rafi7050>
* Research paper link : <https://ieeexplore.ieee.org/document/8944629>

# EDUCATION

**Daffodil International University *- B.Sc. in Computer Science and Engineering***

**(November 2015 - November 2019)**

**CGPA – 3.13**

## B.A.F Shaheen College, Dhaka *- H.S.C*

**(November 2013 - November 2015)**

**CGPA – 4.67**

## B.A.F Shaheen College, Dhaka *- S.S.C*

### (November 2011 - November 2013) CGPA – 4.63