

MARUF AHMED

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CAREER SUMMARY

With my deep-rooted passion for data and my expanding interest in microservice-based web application development, I am now actively seeking exciting opportunities that will not only challenge me but also allow me to further advance my career. I am eager to contribute my expertise to projects that fuse the power of microservices with cutting-edge technologies, ultimately creating scalable and robust web applications. By combining my existing skills in Data Analysis, Visualization, and Machine Learning with the principles of microservices, I aim to contribute to the development of innovative solutions that solve complex problems and drive business growth.

EDUCATION

BOISE STATE UNIVERSTIY, Department of Computer Science

Bachelor of Science, Computer Science, GPA - 3.49

Boise, ID, United States of America

2016-2020

Brown Honors Scholarship (1 of 11 recipients), GEM Undergraduate Scholarship for academic performance, National Science Foundation REU Fellowship, Dean's List - Fall 2016 & Spring 2017, Communications Officer - BSU Bangladeshi Students' Association, Member - Creative Technology Association, Honors Students' Association & Artificial Intelligence Club, BSU department of Computer Science.

BIRSHRESTHA NOOR MOHAMMAD PUBLIC COLLEGE

Higher Secondary Certificate, Science, GPA - 5.00

Peelkhana, Dhaka, Bangladesh

2012 - 2014

Founding Member - BNMPC Science Club, Cadet Corporal – Army Wing, BNCC, Member - BNMPC Alumni Association.

EXPERIENCE

APURBA TECHNOLOGIES LIMITED

Software Engineer - Machine Learning

Dhaka, Bangladesh

May 2023 - Present

- Design, implement, and maintain computer vision and NLP models for various applications, such as image and text classification, object detection, and named entity recognition.
- Pre-process, clean, train and validate computer vision and NLP models using large datasets, optimizing parameters and algorithms to improve accuracy and performance.
- Deploy computer vision and NLP models into production systems and integrate them with other systems and applications.
- Manage and maintain the infrastructure required for ML model training and deployment, including cloud services, computing resources, and data storage.
- Stay up to date with the latest research in computer vision and NLP and perform experiments to test new algorithms and approaches.
- Identify new opportunities to apply computer vision (2D & 3D), NLP (Multilingual), and Machine Learning to different projects.

WEBNATION GLOBAL LIMITED

Full Stack Software Engineer

- Developed web-based applications for different client projects using PHP/Laravel, JavaScript, MySQL, jQuery, VSCode, and AJAX.
- Participated in the design, testing, and code implementation according to software design specifications, by following standard coding styles and practices.
- Wrote clean and maintainable code and documentation that is easy to understand and modify.
- Conducted code reviews to ensure code quality and consistency.
- Mentored and guided other team members.
- Collaborated closely with cross-functional teams to identify business requirements and design scalable and maintainable solutions.

Nagoya, Japan (remote)

January 2023 - May 2023

APPLIED QUANTITATIVE SCIENCES, INC.

Junior Data Scientist

- Created detailed report with PowerBI on optimizing work items for Abbott's equipment servicing team which predicted to decrease the response time by at least 15%.
- Defined Product Strategy and Development Roadmap for Pavement Condition Profiler Web Application.
- Developing a Minimum Viable Product on Asphalt Condition Monitoring for Florida Department of Transportation aiming to drastically reduce inspection cost and increase inspection intervals.
- Automated routine Key Performance Indicator analysis and assessment for Johnson & Johnson's procurement team.
- Developed an application to report the load status of server nodes using InfluxDB and Python for Data Visualization allowing us to implement a load balancer to reduce cloud server costs by 10%.

Fort Lauderdale, FL, USA (remote)

May 2022 - December 2022

METAGEEK, LLC.

Software Engineer

- Created variations of existing web pages with Nuxt.js for running split testing experiments using Google Tag Manager and Google Optimize.
- Analyzed site engagement data from Google Analytics and made data-driven decisions to create scalable web pages.
- Rebuilt and Optimized SEO for Educational and Product pages in modern Vue.js-based architecture (Nuxt.js) resulting in 23% increase in overall traffic.
- Worked closely with designers to take wireframes and mockups from conception to implementation on Nuxt.js web framework.
- Participated in daily stand-up meetings, mid-sprint check-in meetings and sprint planning meetings to plan and execute sprint tasks.

Boise, ID, USA (remote)

May 2021 - April 2022

SMART INFRASTRUCTURE RESEARCH LAB, BSU

Research Assistant

- Trained a neural network model with TensorFlow based on Single Shot Multi-box Detector architecture for pavement surface crack detection.
- Achieved 96% prediction accuracy for detecting pavement cracks.
- Designed and built a small-scale autonomous vehicle platform equipped with Nvidia Jetson TX2 for data collection and real-time inference for pavement crack detection.
- Developed an android application that communicates with SCiO near infra-red spectroscope via Bluetooth and sends collected data to a cloud server for analyzation.
- Experimented with various methods of classifying different grades of asphalt samples and created a machine learning classification model that identified grades and amount of additive in asphalt with an average accuracy of 85%.

Boise, ID, USA

May 2017 - May 2019

SKILLS

Programming

- Python
- PHP
- Java

Web

- JavaScript
- Laravel • CSS
- Bootstrap
- Tailwind • Vue.js
- Nuxt.js
- React • jQuery
- Netlify
- AWS • GCP

Data

- MySQL
- MSSQL
- Pandas
- NumPy
- R • Tableau
- PowerBI • XML
- JSON • ETL
- Data Warehouse

Methodologies

- Object-Oriented Programming
- Agile Development (Scrum)
- Version Control (Git)
- CI/CD

Workplace Ethics

- Teamwork • Communication
- Empathy • Time Management
- Resource Organization
- Real-time Collaboration
- Growth Mindset • Problem Solving
- Leadership • Analytical Skills
- Proactive Approach

REFERENCES

Michael Kubica

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Ryan Woodings

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