

Sudipto Baral

Software Engineer

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Relevant Experience

Software Engineer @ BRAC IT

March 2021 - Present // Dhaka, Bangladesh

- Write modern, performant, robust code for a diverse array of clients and internal projects.
- Work with a variety of different languages, platforms, frameworks, and content management systems such as Python, Django Rest Framework, JavaScript, TypeScript, React, Docker, AWS, KeyCloack, Minio, etc.
- Communicate and collaborate with multi-disciplinary teams of engineers, designers, producers, clients, and stakeholders on a daily basis.

System Engineer @ Nippon System Create

Nov 2019 - Jan 2021 // Tokyo, Japan (Remote)

- Developed and maintained code for in-house enterprise software in C#, VB.NET etc.
- Manually tested different features, fixed bug and developed new features following industry best practices.
- Gained a cross-cultural experience and learned Japanese business culture.

AI Trainee @ BJIT

Jun 2019 - September 2019 // Dhaka, Bangladesh

- Gained theoretical as well as practical experience on Machine Learning, Deep learning, Image processing and AI related tools.
- Worked closely with mentors and learned practical use cases of AI in the industry.
- Coded a fun project *ThinkNdraw* using Google's Quick Draw dataset.

Research Assistant @ Image Lab

Jan 2019 - April 2019 // Dhaka, Bangladesh

- Worked on developing an efficient algorithm for masking and feature extraction from Rice Leaf images
- Presented *A faster technique on rice disease detection using image processing of affected areas in agro-field* in 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018) IEEE

Achievements

2nd Runner up @ National Cyber Drill 2021

- Our team *SiliconBits* secured the 3rd position in the **National Cyber Drill 2021**.
- Total 306 teams, including financial organizations and other government and nongovernment organizations had participated.
- **Scoreboard:** <https://cyberdrill.cirt.gov.bd/scoreboard>

Young Innovator award @ Patuakhali Digital Innovation Fair

- I got the best young innovator award at Patuakhali Digital Innovation Fair - 2018, Organized by Bangladesh government for IoT based Rice field monitoring and disease detection system.

Dean's Merit Award @ Undergraduate

- Dean's Merit award for excellent academic performance in consecutive semesters.

Read my latest blogs at medium.com/@sudiptob2

Skills

Specialty

KeyCloack, Minio, Django Roles
Permission, Pytest Rest APIs, Nginx

Tools & Platforms

Git, Docker, AWS, GitHub Actions,
Gitlab Pipelines, Travis CI.

Programming & Frameworks

Python, Django, React, Flask

Education

Patuakhali Science and Tech

2015 - 2019 // Bangladesh

Bachelor of Science in Computer Science
and Engineering.

CGPA 3.50, First class 2nd

Pet Projects

Shuta

A microservice web application build to practice microservice architecture, deployment, ci/cd and docker and keycloak.

Technology: Django, Flask, Rabbit, Angular, React, MySQL, Postgres, Keycloak, Docker.

Demo: <https://admin.shuta.xyz>

<https://shuta.xyz>

GitHub: github.com/sudiptob2/microserve

Eyeyouyou

An AI based virtual co-working solution which helps you to focus on your work. Eyeyouyou will use Machine Learning to detect your activity such as movement of your face, hand, eye etc. to determine your focus on the computer and notifies you if you lose your focus.

Technology: React, p5.js Image processing.

Demo: <https://eou.sudiptobaral.com>

Intro: youtu.be/aIgsaMITHLQ (1.5m)

GitHub: github.com/sudiptob2/Eyeyouyou

ThinkNdraw

Android application where users have to draw some doodle to pass the quizzes. Drawings recognition Model is trained in **TensorFlow** on the Google's **Quick Draw** dataset.

Technology: Android, Deep Learning, TensorFlow.