

# Sudipto Baral

MSc Student @UWO | SE 3+years | GSoC, 2023 | London, ON, Canada

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Passionate open-source contributor in cloud, infra, and DevOps, started in 2022 with **Hacktoberfest** and continued through **Google Summer of Code 2023**. Also, Promoting open-source awareness among Bangladeshi students through YouTube.

## EXPERIENCE

### BRACIT | SOFTWARE ENGINEER

March 2021 – July 2023 | Dhaka, Bangladesh

- Developed high-quality, efficient, and resilient code for various clients and internal enterprise-level backends, utilizing Python, Django, NodeJs, and Golang.
- Implemented secure authentication mechanisms and role-based access controls, incorporating Keycloak, JWT authentication, OAuth, and passport.js etc.
- Successfully integrated open-source object storage solution (Minio), resulting in a **30% reduction in costs** compared to using AWS S3 buckets.
- Utilized GitLab pipelines, Kubernetes, Docker, and more to automate and optimize the company's CI/CD process. Played a key role in attaining **CMMI-DEV Level 3** certification for the company.

## OPENSOURCE EXPERIENCE

### GOOGLE SUMMER OF CODE 2023 | GCP SCANNER

Project Link: [https://github.com/google/gcp\\_scanner](https://github.com/google/gcp_scanner)

- Enhanced test coverage by incorporating new unit tests, resulting in a **10%** increase in overall coverage.
- Did significant refactoring effort for the crawling module to enhance modularity and promote the "Don't Repeat Yourself" principle. Epic link: **here**.
- Expanding the capabilities of the application by enabling it to scan a wider range of GCP resources, thereby broadening its potential use cases.

### KEPTN LIFECYCLE TOOLKIT | CNCF

Project Link: <https://github.com/keptn/lifecycle-toolkit>

- Contributed approximately **700** lines of code to the project while implementing new features, bug fixes, and writing unit tests in Golang.
- Implemented **Datadog** metric provider integration. PR link: **#948**
- Collaborated on the development and enhancement of documentation materials.

### CF STATS | PERSONAL PROJECT

Project Link: <https://github.com/sudiptob2/cf-stats>

- Utilized GitHub action to generate real-time Codeforces user stat card and badges for readme files.
- Implemented Python design patterns to facilitate the consumption of Codeforces API in a scalable manner.
- Applied Pytest for feature-level unit testing and implemented GitHub Actions for appropriate test pipeline execution.
- Created proper documentation and followed open-source best practices such as branch naming conventions, commit messages, issue tracking, etc.

Some other notable open-source projects **ChkWareCLI**, **LeetEasy**, **motivate-me** etc.

Read my latest blogs at [medium.com/@sudiptob2](https://medium.com/@sudiptob2) and Videos at [youtu.be/@sudiptob2](https://youtu.be/@sudiptob2)

## SKILLS

### SPECIALITY

Keycloak • OAuth • Django roles permission • Minio • REST API • NodeJS Microservice

### PROGRAMMING

Python • JavaScript • Golang • BASH • SQL

### LIBRARIES/Frameworks

Django • Node.js/Express • React • Pytest • Celery • Redis • RabbitMQ

### TOOLS/PLATFORMS

Docker • Git • Kubernetes • Gitlab pipelines • Nginx • GCP Keptn • NewRelic • AWS

## EDUCATION

### WESTERN UNIVERSITY



MSC IN COMPUTER SCIENCE  
London ON, Canada  
School of Computing

### PSTU



BSC. IN COMPUTER SCIENCE  
June 2019 | Patuakhali, Bangladesh  
School of Computing  
Cum. GPA: 3.5 / 4.0

## REFERENCES

### Raju Majumder

Software Architect @ **BRACIT**  
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### Saumya Shovan Roy

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