




# ASHRAK RAHMAN LIPU

## Software Engineer

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ashrakrahman 

A Passionate Software Engineer searching for a responsible and challenging position which will give me the opportunity to apply my problem solving skills and knowledge that I developed through my 6+ years of professional experiences.

## Work Experience

### RankWorks – Full Stack Software Developer

Montreal, Quebec

Oct 2022 – Present

- Designed & Implemented Rankworks In house Backend Micro service platform using Python, FastAPI, MongoDB, Swagger etc. Designed Rankworks scheduler module using Celery, Redis to post on user's connected social platforms.
- Managed Rankworks infra architecture on Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), Artifact Registry, GitHub CI/CD pipeline and Cloud Shell to deploy containerization application in highly available and scalable production environment.
- Led the development of the Front-end codebase using React.js with TypeScript to enhance code quality, error detection, improve code documentation, and developer productivity.
- Established sophisticated Redux architecture, utilized Sass modules and containerized react build with Docker for production ready environment. Link: <https://dev.influencerunion.net>, <https://business.rankworks.com>

### TigerIT Bangladesh Limited – Software Engineer

Dhaka, Bangladesh

Aug 2020 – Sep 2022

- Worked on webRTC based video conferencing application using Typescript, ReactJs, Redux, MQTT, Twilio video sdk etc. Led a team of 3 Front end developers, did code reviews and manage PRs. Project Link: <https://www.commchat.com>
- Developed a dynamic web based survey application using ReactJs, Redux, NodeJs, GraphQL, MongoDB, SASS etc.

### mPower Social Enterprises Ltd – Software Engineer

Dhaka, Bangladesh

Nov 2018 – Aug 2020

- Developed Back-End services and RESTful APIs using Python, Django, Postgresql and celery for background tasks.
- Developed front end applications using Javascript, Typescript, ReactJs and Redux. Performed unit testing using Jest, Enzyme.
- Building complex Postgresql queries, reports, charts using pandas, numPy, highchart, mapbox etc.

## Education

### Rajshahi University of Engineering and Technology (RUET) B.Sc in Computer Science and Engineering (CSE)

Bangladesh

2012 – 2017

CGPA: 3.28 out of 4.00

Medium of Instruction: English

## Technical Skills

<b>Programming:</b>	JavaScript • Typescript • Python • PHP • C • PostgreSQL • GraphQL • HTML/CSS
<b>Frameworks:</b>	ReactJs • Django • NodeJs • Laravel • Redux • Codeigniter • ExpressJS • Jest/Enzyme GraphQL • SASS • NoSQL
<b>Others:</b>	Git • Bash scripts • Docker • CI/CD pipeline • Kubernetes • Jira • Asana etc
<b>Office Packages:</b>	MS Word • MS Excel • MS PowerPoint etc.

## Projects

### CommChat Meetings–Video conferencing application

- Worked on front end core development of webRTC based Real-Time video conferencing application (Commchat Meetings) using twilio video sdk, ReactJS, Typescript, Redux, MQTT, HTML/SASS etc.
- Developed authentication module, SSO module, Grid layout UI for the commchat web application.

- Developed local audio/video track preview module, ongoing calls module, and instant join meeting module from ongoing call list for commchat users.

## Survey App – Online Survey Tool

- Developed an online survey tool from scratch to create online survey forms where the surveyor dynamically creates questionnaires, publishes forms, and collects users' answers from the survey questionnaires.
- For Backend services used NodeJs, Express.js Framework, NoSql, GraphQL etc.
- For Client-side application used ReactJs, Typescript, Redux, HTML, SASS etc.

## IFC – Agro Advisory Services Portal

- Developed backend services and REST APIs to collect farmer's data from IFC mobile app using Django Rest Framework.
- Developed SMS configuration web portal based on collected data to send advisory sms to the beneficiaries.
- Developed SMS scheduling web portal for certain group of beneficiaries using Python, Django, Celery, Redis, Postgresql etc.
- Develop Reports using Django, Postgresql, Javascript, MapBox.js, Highchart.js, Piechat.js etc.

## SHUDOKKHO – micro ERP application for Livestock Service Providers

- Developed backend services and REST APIs for SHUDOKKHO mobile app using python, Django Rest Framework, Postgresql.
- Developed front-end content management system, scheduled content sending for SHUDOKKHO mobile app using Django, Celery, and Javascript.

## BRAC HCMP – Inventory Management System

- Worked on core Requisition creation flow, Product partially return flow, user role management for requisition approval, Supplier/Donor management, Warehouse stock calculation etc. using Python, Django, Postgresql, Javascript.
- Worked on report generation on previous dataset, export module etc

## SHUROKKHA – Telemedicine prescription system

- Worked on the beneficiary, livestock module data, collected from shurokkha app using Python, Django, Postgresql, pandas etc.
- Developed prescribed system for the tentative diagnosis of livestock and sms services for the beneficiary using Python, Django, Celery, Postgresql, Javascript.
- Generate reports using Python, Django, Postgresql, Javascript, MapBox, Highchat etc.

## harriken.com – Restaurant Discovery Service in Dhaka

- Developed and maintained harriken backend RESTful services using PHP, Laravel, MySQL
- Worked on harriken Restaurant management system using Laravel, Javascript.
- Worked on Restaurant Bill payment and verification system for bKash Restaurant week campaign.
- Developed Jackpot winner system API on scanning harriken app QR code.

## Research & Others

### Publication:

Exploiting Parallelism for Faster Implementation of Bubble Sort Algorithm Using FPGA. *2nd International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE)* 8-10 December 2016, Rajshahi-6204, Bangladesh.

Link - [ieeexplore.ieee.org/document/7879576/](http://ieeexplore.ieee.org/document/7879576/)

**GitHub Projects:** [github.com/ashrakrahman](https://github.com/ashrakrahman)

**Problem Solving Skills:** 200+ Problem solved in Various Online Judges.