

ASHRAK RAHMAN LIPU ↗ ashrakrahman.github.io

📞 +1 438-462-2346 ✉️ ashrakrahman@gmail.com 💬 linkedin.com/in/ashrakrahman 🌐 H4P 0C5, Montreal, QC

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 8+ years of professional experiences.

Work Experience

RankWorks – Senior Software Developer

Montreal, Quebec | Oct 2022 – Present

- Designed Rankworks cloud-native microservices platform using **Python, FastAPI, MongoDB, Redis, Kafka, Docker, K8s** etc. Integrated Stripe payment gateway, Single Sign on Module, Real-time Notifications via Kafka & WebSocket, Social Connections module, scheduled social media Posting etc.
- Deployed scalable infrastructure on **Google Cloud Platform** using **GKE, Artifact Registry, GitHub Actions, and Cloud Shell.** ↗ [Rankworks Business](#)
- Led front-end development using **React.js, TypeScript, and Redux**, implementing scalable architecture, **Sass modules**, BI dashboards and containerized react build with docker for production ready environment.

TigerIT Bangladesh Ltd. – Software Engineer

Dhaka, Bangladesh | Aug 2020 – Sep 2022

- Worked on core development of webRTC based video conferencing application (CommChat Meetings) using **Twilio video sdk, Typescript, ReactJs, Redux, MQTT, Node.js, GraphQL** etc.
- Developed meeting room creation module, A/V track create and publish module, A/V preview grid layout module, Screen feed publish module, Ongoing calls modules, Instant join meeting module, Participant list module etc. Integrated react hooks, redux state management, context providers, react testing libraries and mocks etc. ↗ [Comchat Meetings](#)
- 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.
- Mentored junior developers, conducted code reviews, and managed pull requests to ensure code quality.

mPower Social Enterprises Ltd. – Software Engineer

Dhaka, Bangladesh | Nov 2018 – Aug 2020

- Worked on several projects using **Python, Django, Postgresql, Celery, Pandas, Numpy, Javascript** etc. Developed and maintained robust backend services and REST APIs to support mobile applications and frontend platforms for reporting and analytics.
- **BRAC HCMP – Inventory Management System:** Developed requisition workflows, product return handling, stock management, and approval hierarchies. ↗ [BRAC HCMP](#)
- **IFC Agro Advisory Portal:** Integrated farmer data with external **weather station APIs** to generate personalized farming tips. ↗ [IFC](#)
- **SHUROKKHA – Telemedicine Platform:** Enabled veterinary diagnoses, SMS alerts, and report generation for livestock care. ↗ [SHUROKKHA](#)

B-Trac Solutions Ltd. (Harriken.com) – Software Developer

Dhaka, Bangladesh | Jun 2017 – Oct 2018

- Developed RESTful APIs for **Harriken's Web, iOS, and Android** platforms using **Laravel** and **MySQL**.
- Built **Restaurant Management System** and **Bill Verification tools** for **bKash Restaurant Week Campaign**.
- Created **QR-based Jackpot System** to reward users through Harriken's app during promotional campaigns.

Education

Rajshahi University of Engineering and Technology (RUET)

Bangladesh | 2012 – 2017

B.Sc in Computer Science and Engineering (CSE)

Medium of Instruction: English

CGPA: 3.3 out of 4.0

Spoken Languages: English (Fluent), French (Beginner)

Technical Skills

Programming Languages:

Python • TypeScript • JavaScript • PHP • C • SQL

Backend Frameworks:

FastAPI • Django • Node.js • Laravel • CodeIgniter

Databases & Data Systems:

PostgreSQL • MongoDB • Redis • Kafka • NoSQL • ORM • Celery • Pandas • NumPy

Frontend Technologies:

React.js • Redux • HTML5 • CSS3 • SASS • Bootstrap • Tailwind CSS • JavaScript (ES6+)

API & Data Handling:

REST APIs • GraphQL • JSON • WebSocket

DevOps & Cloud Technologies:

Docker • Kubernetes (GKE) • Git • GitHub Actions • Google Cloud Platform (GCP) • Bash Scripting • Nginx

Project & Team Collaboration:

Jira • Trello • Asana • Agile/Scrum

Office Tools:

MS Word • MS Excel • MS PowerPoint

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/](https://ieeexplore.ieee.org/document/7879576/)

GitHub Projects: github.com/ashrakrahman