

# SOHAN CHOWDHURY

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## SKILLS

**Languages:** JavaScript, Python, PHP, Typescript, Java, SQL

**Backend:** NodeJS, Express, Laravel, Flask, FastAPI, Redis, Postgres, RabbitMQ

**Frontend:** ReactJS, HTML, CSS (+ Sass), Material UI, Bootstrap

**Miscellaneous:** Docker, REST, Git, AWS, Agile, SCRUM, TDD

## EXPERIENCE

### Software Engineer

Dec. 2019 – Aug. 2021

*Grameen Telecom Trust, Digital Health Division*

- **Reduced user wait times by 10x** by introducing queuing and the pub-sub model for aggregating activities from 5 different applications to replace the legacy reward points micro-service (Express (NodeJS), Laravel (PHP), RabbitMQ, REST API).
- **Led a team of juniors** from planning to finished product, working with product team and clients, ensuring **successful on-time delivery** of 3 external b2b projects (Laravel (PHP), Flask (Python), React (JS), PostgreSQL, Redis).
- Reduced human **labeling costs by 10%** by building a customized data labeling dashboard (React, Laravel) and a semi-automated data-pipeline (Python) for the ML receipt recognition system.
- **Reduced release delays** by 2-3 weeks on numerous features by identifying key external blockers and resolving blockers early through proactive collaboration.
- Generated high-impact business insights by building a context-aware survey system (React, NodeJS, Express, PostgreSQL)

### Associate Software Engineer

Oct. 2018 – Nov. 2019

*Grameen Telecom Trust, Digital Health Division*

- **Achieved 2-3x performance improvements** on legacy REST APIs (PHP, Laravel, NodeJS) by applying **API composition, caching, queuing, api- and SQL optimization** on business-critical digital-health backends handling 5 million+ users.
- Took ownership, maintained and documented core monolith rest API with complex undocumented business logic.

### Graduate Assistant - HCI LAB & CS Dept

Sept. 2021 – Apr. 2023

*The University of British Columbia*

- Built the on-premise real-time device data collection system with integration for multiple device types, resulting in **3x faster prototyping** and significant **reductions in piloting costs** (NodeJS, Express, RabbitMQ).
- Developed the custom headless CMS (NodeJS, Express, Postgres) for the lab-group with pdf paper parsing and API integration, resulting in the **elimination of redundant data-entry tasks**.
- Taught labs in Web Programming (HTML, CSS, JS, PHP, MYSQL) and HCI (User-centered design).

## EDUCATION

### The University of British Columbia

Sep. 2021 – Apr. 2023

*MSc in Computer Science | 4.33/4.33 | Fully Funded | Human-Computer Interaction, User-Centered Design*

*BC, Canada*

### American International University - Bangladesh

Mar. 2015 – Sep. 2018

*BSc in Computer Science & Software Engineering | 3.95/4.0*

*Dhaka, Bangladesh*

## PROJECTS

### Lipi, Static Blog Generator GUI <https://github.com/SohanChy/Lipi>

Aug. 2017 - Jul. 2018

- Identified the need for and developed an open source 'What You See is What You Get' (WYSIWYG) static blog generator, which was used by hundreds of hugo community members.
- Mentioned on the official hugo documentations and received 120+ stars on Github.

## ACHIEVEMENTS & HOBBIES

- Recipient of Graduate Entrance Scholarship, and Graduate Research Scholarships.
- As team lead, won 2nd position in a national-level and 3rd position in a inter-University hackathon
- Multiple academic excellence awards including Summa Cum Laude, Vice-Chancellors & Dean's List Awards
- Hobbies include hiking, backpacking, camping, single-player video games, and landscape-photography