

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

- **Successfully built and launched the MVP** of a ground-breaking health-tech application, collaborating with a cross-functional team of product managers, technical architects, designers and leading a team of junior developers. (API - Express (NodeJS), Dashboard - Laravel (PHP), Frontend - React (JS), Infra - AWS, PostgreSQL, Redis).
- **Reduced user wait times by 10x** for the reward points redemption API by introducing the pub-sub model for aggregating activities from 5 different applications (Express (NodeJS), Laravel (PHP), RabbitMQ, REST API).
- **Achieved a 10% cost reduction of data labeling expenses** by building a customized data labeling dashboard (React, Laravel) and a semi-automated data-pipeline (Python) for the ML receipt recognition system.
- **Minimized 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.
- Featured on the official hugo documentation 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