

SOHAN CHOWDHURY

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SKILLS

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

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

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

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

EXPERIENCE

Software Engineer

Jul. 2023 – Present

Humi - Scheduling, HR & Payroll

Fully Remote, HQ: Toronto, Canada

- Led the development of an **AI-enhanced forecasting product from initial concept to successful launch, processing up to 1M sales and labor data points per roster** to generate staff rosters with up to **weekly 14% labour cost savings for clients**. (Web (Laravel), Data Processing (Python, Pandas, Langchain, SQS).
- Rebuilt the legacy synchronous notification system** into an independent asynchronous architecture and added integrations across multiple legacy systems that **reduced notification wait times from up-to 10 minutes to real-time** and significantly improving user experience optimizing load during spikes. (Laravel, Raw PHP, Firebase+APNS, SQS).
- Led the **integration with multiple large scale third party** webhook and api based POS systems and reporting systems - working and **co-ordinating with external liaisons and engineering teams leading to 2-3x increases in the product's TAM**(Total Addressable Market)
- Created a purpose built micro-ORM to handle unsupported legacy data storage issues, and MariaDB 5.5 indexing limitations, ensuring seamless integration and enabling **improved developer experience and codebase modernization** without breaking features or significant delays.

Software Engineer

Oct. 2018 – Aug. 2021

Grameen Telecom Trust, Digital Health Division

Hybrid - Dhaka, Bangladesh

- Successfully built and launched the MVP** of a ground-breaking health-tech application by **leading a team of junior developers and collaborating with a cross-functional team** of product managers, technical architects, designers. (API - Express (NodeJS), Dashboard - Laravel (PHP), Frontend - React (JS), Infra - AWS, PostgreSQL, Redis).
- Reduced user wait times by 10x** for the reward points (promo) API by developing the pub-sub architecture for aggregating activities from 5 different applications (Express (NodeJS), Laravel (PHP), RabbitMQ, REST API).
- Minimized release delays** by 2-3 weeks on numerous features by identifying key external blockers and resolving blockers early through proactive collaboration.
- 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.

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).

Software Developer - Contract

Dec. 2016 – Sep. 2018

Access to Information (a2i) Program

- Developed a geo-fencing based fraud prevention system **reducing manual interventions by 70%**.

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>

No longer maintained, 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.