

# Mr. A M Saif Mahmud

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## Education

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### BRAC University

*Bachelor of Science in Computer Science and Engineering*

CGPA: 3.60

Graduation Year: 2019

## Experience

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### Obhai Solutions Ltd. (A ride-sharing platform by MGH Group)

*Back-end Systems, Database and DevOps Engineer*

April 2019 – Present

Dhaka, Bangladesh

- Optimized API calls on Google Maps, reducing the monthly cost of around 60%.
- Created a chatbot for WhatsApp for ride booking, service list and customer support.
- Worked on revamping the system infrastructure utilizing AWS.
- Established current software development standards.
- Built skeletons for PHP and NodeJS as a starter for micro-service frameworks.
- Tools/Technologies Used: NodeJS (12), Java (1.8), PHP8, MySQL 8, JavaScript, SCSS

### Rivmedia (A digital marketing agency)

*Developer*

March 2017 – February 2019

United Kingdom

- Worked as a contractual developer to develop add-ons for XenForo.
- Tools/Technologies Used: PHP7, MySQL, JavaScript, LESS

### Crazy Engineers (India's number one engineers' forum)

*Developer*

December 2014 – July 2015

India

- Built the first iteration of their résumé builder.
- Tools/Technologies Used: PHP5, MariaDB, JavaScript, LESS

### GradConnect (A career consultancy service)

*Developer, System Administrator*

December 2013 – August 2018

Dhaka, Bangladesh

- Created the first and second iterations of the website.
- Tools/Technologies Used: PHP5, MariaDB, JavaScript (ES2015), Git

## Relevant Projects

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### Hazrat Shahjalal International Airport

*Web Developer*

- The first official website of HSIA.
- Tools/Technologies Used: WordPress, MySQL

### REGEX Compiler (A simple regular expression compiler/matcher using Thompson's construction)

- Supports concatenation, grouping, character classes and modifiers including “\*”, “?”, “+”.
- Was part of the “Compilers” course.
- Tools/Technologies Used: Java (1.8)
- Link: <https://github.com/sikhlana/cse420/tree/feature/regex>

**Grezzli** (An open marketplace to hire freelancers)

*Back-end Developer*

- Built a RESTful API for their mobile applications.
- Added a few minor features, code refactoring and optimization.
- Tools/Technologies Used: PHP7, Laravel, MariaDB

**Dhaka Boot Barn** (An e-commerce website)

*Developer*

- Created a full e-commerce site from with Laravel 5.6 and a premium HTML template.
- Tools/Technologies Used: PHP7, Laravel, MariaDB, VueJS, jQuery, SCSS

**Obhijan** (An app for the travel junkies)

*Developer*

- Created a new section to list and review restaurants.
- Tools/Technologies Used: PHP7, Laravel, MariaDB

**UNaB Magazine** (A platform for teenagers to publish their literary works)

*Community Leader, System Administrator*

- Tools/Technologies Used: XenForo, WordPress, MariaDB

**Cineplex** (An interactive web application platform to buy movie tickets online)

*Team Leader, Lead Back-end Developer*

- Was part of the **Database Systems** course.
- Tools/Technologies Used: PHP5, Laravel, MariaDB, jQuery, CSS
- Link: <https://github.com/sikhlana/cse370>

**Khela Hobe** (A simple web application to handle stock and e-commerce)

*Team Leader, Lead Back-end Developer*

- Built a complete micro-framework to handle HTTP requests using Java.
- Was part of the **Object-Oriented Programming** course.
- Tools/Technologies Used: Java (1.8), MariaDB, VueJS, LESS
- Link: <https://github.com/sikhlana/cse310>

**Automated Attendance System** (An IoT device connected to the Cloud)

*Team Leader, Lead Developer*

- Used Raspberry Pi 3B coupled with a camera (to read QR Codes) and an RFID reader.
- Was part of the **Digital Systems Design** course.
- Tools/Technologies Used: Python (3.7), PHP7, Laravel, MariaDB, VueJS, SCSS
- Link: <https://github.com/sikhlana/cse461>

**Violation of Rights** (A portal displaying occurrences of past violations of basic human rights)

*Team Leader, Lead Developer*

- Developed a fully working web portal to display occurrences of the violation of basic human rights.
- Was part of the **Undergraduate Thesis** project.
- Built a web scrapper from scratch to fetch articles from a predefined list of sources.
- Used Stanford's CoreNLP to extract relevant information from the articles.
- Trained a classification model involving different machine learning algorithms.
- Tools/Technologies Used: Python (3.7), Java (1.8), PHP7, Laravel, MariaDB, VueJS, SCSS
- Link: <https://vor.saifmahmud.name/>

## Achievements

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- **Power and Energy Hackathon 2018** – Was invited to showcase our low-power automated attendance system.
- **TadHack 2018** – Was awarded as the First Runner Up of **TadHack Bangladesh** with our idea and implementation to combat domestic violence.

## Skills

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**Programming Language:** PHP (5.4+, 7, 8), Java (1.8), JavaScript (ES2015), Python (3.7).

**Backend Development:** Laravel Framework, Framework X, Spring Boot, NestJS.

**Frontend Development:** VueJS, NuxtJS, jQuery, Tailwind UI, Semantic UI, Bootstrap 4.

**DevOps / Miscellaneous:** Git, Jira, Amazon Web Services, Jenkins, Github Actions, Docker Swarm, Traefik.

**Human Language:** Bengali, English