

Mr. A M Saif Mahmud

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Education

BRAC University

Bachelor of Science in Computer Science and Engineering

CGPA: 3.60

Graduation Year: 2019

Experience

Optimizely

Staff Software Engineer

June 2024 – Present

Bangladesh

- Enabled development environment support on Apple M3 with Rosetta2.
- Integrated “OptiID” SSO in legacy codebase.
- Tools/Technologies Users: Docker, PHP7, CakePHP.

MGH Group

System Architect & DevOps Engineer

March 2019 – May 2024

Bangladesh

- Started as a back-end developer for Obhai, a ride-sharing platform in Bangladesh.
- Created and maintained cloud infrastructure of every vertical of the group using Terraform.
- Established current software development standards within the group.
- Established current CI/CD standards using GitHub Actions within the group.
- Broke down parts of legacy code into micro-services for Obhai.
- Created a framework skeleton to be used by engineers for fast and easy development and deployment for both Laravel and NestJS-based projects within the group.
- Created a chatbot for ride booking, service availability checking and customer support for Obhai.
- Containerized all web services and panels for the group.
- Set up container orchestration on a cluster of nodes using Docker Swarm.
- Set up Traefik Proxy to route requests from a single entry-point to target services through Docker’s ingress network on top of Elastic Load Balancer.
- Tools/Technologies Used: NodeJS, Express, NestJS, Java, Spring Boot, PHP8, Laravel, MySQL 8, RDS Aurora (MySQL 5.7), JavaScript, Vue, Nuxt, Vite, SCSS, Tailwind CSS, Nuxt UI, AWS, Docker, Kubernetes, Terraform, NGINX, Traefik Proxy.

Rivmedia (A digital marketing agency)

Developer

March 2017 – February 2019

United Kingdom (*Remote*)

- Worked as a contractual developer to develop add-ons for XenForo.
- Tools/Technologies Used: PHP7, XenForo, MySQL, jQuery, LESS.
- Link: <https://www.rivmedia.co.uk/>

Crazy Engineers (India’s number one engineers’ forum)

Developer

December 2014 – July 2015

India (*Remote*)

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

- Created the first and second iterations of the website.
- Tools/Technologies Used: PHP5, Laravel, MariaDB, jQuery, LESS.

Relevant Projects

Hazrat Shahjalal International Airport

Web Developer

- Created 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.
- Link: <https://github.com/sikhlana/cse420/tree/feature/regex>

Grezzli (An open marketplace to hire freelancers)

Back-end Developer

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

Dhaka Boot Barn (An e-commerce website)

Developer

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

Obhijan (An app for the travel junkies)

Back-end 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.

BRACU Family (A community website for the students of BRAC University)

Community Leader, Developer

- Hooked into BRACU's official API to authenticate visitors as a student of BRACU.
- Created a resource section to help students download course materials and other relevant resources provided by the faculty members online.
- Tools/Technologies Used: PHP7, Laravel, MariaDB, Vue, SCSS.

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

Team Leader, Lead Back-end Developer

- Built a complete MVC micro-framework to handle HTTP requests using **PHP** on top of **Zend Framework**.
- Was part of the **Database Systems** course.
- Tools/Technologies Used: PHP5, MariaDB, jQuery, LESS.
- Link: <https://github.com/sikhlana/cse370>

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

Team Leader, Lead Developer

- Built a complete MVC micro-framework to handle HTTP requests using **Java**.
- Was part of the **Object-Oriented Programming** course.
- Had support for concurrent requests using **Threads**, server-side rendering using **Thymeleaf**, database schema migrations using **Flyway**, ORM using **OrmLite**.
- Tools/Technologies Used: Java, MariaDB, Webpack, Vue, LESS.
- Link: <https://github.com/sikhlana/cse310>

Automated Attendance System (A low-powered IoT device)

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.
- Built a web portal for faculties to and administration officers to view attendance of the students.
- Tools/Technologies Used: Python, PHP7, Laravel, MariaDB, Vue, 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 on a vector map (using Mapbox).
- Was part of the **Undergraduate Thesis** project.
- Built a web scrapper to fetch articles from a predefined list of news portals.
- Used Stanford's CoreNLP to extract relevant information/entities from the articles.
- Trained a classification model involving different machine learning algorithms.
- Tools/Technologies Used: Python, Java, PHP7, Laravel, MariaDB, Vue, SCSS.
- Link: <https://github.com/sikhlana/thesis> (*Private Repository*)

Achievements

- **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

Programming Language: PHP (8.3), Java (11), JavaScript (ES2022), TypeScript (4).

Backend Development: Laravel, Spring Boot, NestJS, Express, GraphQL, REST.

Frontend Development: Vue, Nuxt, jQuery, Vite, Tailwind CSS, Nuxt UI, Semantic UI, PrimeVue, Buefy.

Cloud Infrastructure: Amazon Web Services, Microsoft Azure, *Terraform (CDKTF)*.

Web Server / Reverse Proxy: NGINX, Caddy, Traefik Proxy, HAProxy, Let's Encrypt.

Version Control: Git.

CI/CD: GitHub Actions, GitLab CI, Jenkins.

Container Orchestration: Docker Swarm, Kubernetes.

Human Language: Bengali, English.