

MD KHALID SYFULLAH

B.Sc. Engg. (ECE)

✉ [Gmail](#) 🌐 [Webpage](#) [LinkedIn](#) [GitHub](#) [LeetCode](#)

EDUCATION

Rajshahi University of Engineering & Technology (RUET)

Jan 2017 – Apr 2024

Bachelor of Science (B.Sc. Engg.) in Electrical & Computer Engineering (ECE)

CGPA: 3.30/4.00

Courses: [View Statement of Courses and Grades](#)

WORK EXPERIENCE

Qubitech Solutions

Apr 2021 – Dec 2021

Software Developer

Rajshahi, Bangladesh

- Led development of 4 projects at Qubitech Solutions, fueling startup growth and technological advancement.
- Collaborated with 2 startup clients, contributing to the development of Native Android apps and web platforms.
- Worked closely with CEO Mr. Mahir Ashef and a team of 6 front-end, back-end, and Android developers, achieving a large reduction in development time.

Developed Projects:

- OBOSOR, Community & Campus-based Online Book Shop, Project Link: [Website](#)
- BERGER, Data Collector App, Project Link: [Website](#)

MonstarLab Bangladesh

Apr 2021 – Jun 2021

Industrial Attachment

Dhaka, Bangladesh (Remote)

- Analyzed all SDLC phases, requirements analysis, database optimization schemas, and OOP principles for 2 projects.
- Analyzed 4 design patterns and 2 development frameworks (AngularJS and Native Android) for platform development.
- Learned beta testing to ensure product quality assurance, and Git for version control.

Developed Projects:

- Angular Front-end, Blog Web Application, Project Link: [GitHub](#)
- Node.js Back-end, Blog Web Application, Project Link: [GitHub](#)

B.SC. THESIS

BOIMELA: Development of An EPUB3 Reader with Multilingual EBook Store, OAuth 2.0 API and MVVM Architecture, M. K. Syfullah, Dept. of ECE, RUET, Link: [Thesis Book](#)

- **EPUB3 Support:** Developed a modern in-app reading experience in both English and Bangla with reflowable layout and rich media content. Implemented features like chapter navigation, progress monitoring, light/dark modes, and screen adjustment.
- **MVVM Architecture & OAuth 2.0 API Access:** Structured e-book collection using MVVM for better performance and scalability. Implemented secure API access with OAuth 2.0 authentication and administrative functions.

TECHNICAL SKILLS

Languages	Java, C++, JavaScript, Python, HTML5, CSS3, PHP, XML
Mobile App	Android Native (Java + XML, Firebase Auth, Retrofit, Tensorflow Lite)
Back-end	Node.js (Express, Mongoose, JWT, Bcryptjs, Multer, Chai, Mocha, Jest)
Front-end	React, Redux, Tailwind CSS, Bootstrap 5, Axios
Database	MongoDB, MySQL, Firebase, SQLite
Cloud	AWS (EC2, Route 53), GCP (Compute Engine), CPANEL
Linux	Apache, Vsftpd, Nginx, Bind, Git, Bash, Docker
Tools	Postman, GitHub, SSH, Trello, ClickUp, DeskTime
CMS	Wordpress, Shopify
UI/UX	Adobe XD, Figma, Adobe Illustrator
IDE	VS Code, Android Studio, Antigravity, Anaconda, Jupyter
ML/DL	Numpy, Pandas, Scikit-Learn, Tensorflow, PyTorch, SHAP, LIME

- BOIMELA** | Mobile EPUB3 Reader with E-Book Store Mobile App
* Developed a mobile application for reading and purchasing eBooks using the EPUB3 format.
* Implemented features for seamless reading, bookmarking, and user library management.
* Project Link: [GitHub](#)
- BOIMELA Back-end** | Node.js REST API for Boimela: EPUB 3.0 Reader Back-end
* Developed a REST API using Node.js to support the Boimela mobile application.
* Implemented endpoints for user authentication, book management, and purchase transactions.
* Ensured secure and efficient handling of user data and transactions.
* Project Link: [GitHub](#)
- BOIMELA WEB** | Boimela E-Book Store React Web App Website
* Developed a web application using React.js for the Boimela E-Book Store.
* Implemented features for browsing, purchasing, and reading eBooks online.
* Integrated with the Boimela back-end for seamless user experience across platforms.
* Project Link: [GitHub](#)
- PLASMA+** | Plasma & Blood Banking Platform for Android Mobile App
* Created a mobile application to connect plasma and blood donors with recipients.
* Implemented back-end services for user registration, search, and matching functionalities.
* Project Link: [GitHub](#)
- VFloors360-Client** | 360° VR Room Visualization Platform Website
* Developed an immersive 360-degree room visualization platform to explore tile catalogs in realistic VR environments.
* Implemented dynamic scene loading and seamless integration with backend APIs for responsive content delivery.
* Project Link: [GitHub](#)
- VFloors360-Server** | Node.js REST API for VR Visualization Platform Back-end
* Developed a RESTful backend using Node.js, implemented user authentication and tile management using MongoDB.
* Project Link: [GitHub](#)
- VFloors360-Admin** | Administrative Dashboard for VR Content Management Website
* Developed an administrative dashboard for managing tile textures and platform configurations using React.
* Project Link: [GitHub](#)
- Task Manager** | React Task Management Web App Website
* Developed a task management web application using React.js for the front end.
* Implemented features for viewing, adding, editing, and deleting tasks with real-time updates.
* Integrated with a Node.js and Express backend for RESTful API operations, and MongoDB for task storage.
* Project Link: [GitHub](#)
- Muslim Virtual Aid App** | Android Islamic App Mobile App
* Developed an Android application using Java and XML to assist users in daily Islamic practices.
* Implemented core features including Quran access, Salah times, mosque locations, Qibla direction, and Ramadan-specific functionalities for Bangladesh.
* Followed MVVM architecture to ensure clean, maintainable, and scalable code structure.
* Project Link: [GitHub](#)
- GrammarQuick for Android** | English Grammar App Mobile App
* Developed an educational mobile application integrating various grammar exercises and quizzes to enhance learning.
* Project Link: [GitHub](#)
- CXR17-DenseParallel-ELM** | CNN-based 17 Lung Diseases Detector Mobile App
* Developed a mobile application using Convolutional Neural Networks (CNN) to detect 17 lung diseases.
* Implemented DenseParallel-ELM model to enhance accuracy and performance.
* Project Link: [GitHub](#)
- Plant Disease Classifier** | CNN-based Cotton & Tomato Diseases Detector Mobile App
* Developed a mobile application to classify diseases in cotton and tomato plants using CNN.
* Trained the model on a dataset of plant images to achieve high accuracy.
* Project Link: [GitHub](#)
- ROPMS** | PHP-based Student-Teacher Profile Management System Website
* Developed a web application using PHP for managing student and teacher profiles.
* Implemented features for profile creation, updates, and performance tracking.
* Ensured data security and integrity through robust back-end solutions.
* Project Link: [GitHub](#)

ACHIEVEMENTS & AWARDS

- WINNER, IEEE YESIST12 2020, Special Track** September 2020
PLASMA+ Malaysia
* An AI-based Blood and Plasma banking mobile application that facilitates COVID-19 detection from chest X-ray images and connects donors and patients nationwide.
- 2nd Runner-up, Virtual Project Competition on ICT, IICT, RUET** December 2020
PLASMA+ Bangladesh
* A DL-based lightweight lung-affected disease recognition app with COVID-19 detection.
- Extraordinary Achievement, Distinguished Achievements Award, ECE, RUET** October 2019
IoT Based Multi-layered Security & Automated Monitoring System Bangladesh
* An IoT-based sustainable solution for a multi-layered security system for home and office at a minimum cost with monitoring and alarm.
- Most Popular Project Award, IEEE YESIST12 2019, Maker Fair Track** September 2019
IoT based Monitoring Car Robot for Disaster Management Thailand
* An IoT-based robot car solution for disaster management that detects environmental parameters and transmits vital information to a central host, enabling efficient rescue operations in specific areas.

LEADERSHIP / EXTRACURRICULAR

- Medspire, IEEE R10 HAC Special Project** May 2020 – Mar 2021
IEEE Region 10 & IEEE HAC Special Call for Projects (R10-HTA-021) Rajshahi, Bangladesh
* Addressed local needs during COVID time by proposing and developing a telemedicine platform for Android to establish seamless patient-doctor interaction.
* Participated in a high-profile startup pitching competition.
- Developed Projects:**
* **PLASMA+**, Plasma & Blood Banking Platform, Project Link: [GitHub](#)
* **E-DOCTORS**, Mobile Telemedicine Platform for Android, Project Link: [GitHub](#)
- Organizing Committee Member** December 2019
Hult Prize at RUET, 2019-20 Hult Prize Foundation
* Managed communications between event sponsors and organizers.
* Interacted with the judges' panel during the competition.
- Web Developer** June 2019
Technocracy 2019 Department of ECE, RUET
* Developed an event management website for the technical organization of Technocracy 2019 event.

CERTIFICATIONS

- Machine Learning Specialization** September 2023
University of Washington, Coursera
Credential URL: [Click to Open](#) Credential ID: KJ5PZ6V VX4NS
- Reinforcement Learning Specialization** September 2023
University of Alberta, Coursera
Credential URL: [Click to Open](#) Credential ID: VVN725H2W3SK
- Self-Driving Cars Specialization** October 2023
University of Toronto, Coursera
Credential URL: [Click to Open](#) Credential ID: N2ZKC5FNBR95
- Basic Game Development Workshop 2018** May 2018
Dept. of Computer Science & Engineering, RUET Rajshahi, Bangladesh