Curriculum Vitae

# Abdullah Al Rafee

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## Academic Credentials

**Bachelor of Science in Electronics and Communication Engineering**          CGPA: 3.19/4.00
Khulna University of Engineering and Technology (KUET)
November 2018 — May 2024

**Higher Secondary School Certificate (HSC)**          GPA: 5.00/5.00
Notre Dame College (NDC), Dhaka
June 2016 — June 2018

**Secondary School Certificate (SSC)**          GPA: 5.00/5.00
Chakaria Grammar School, Cox's Bazar
April 2016

## Experience

| **Software Engineer** | **Assistant Head of Development** | **Frontend Developer** |
|---|---|---|
| UJET Inc. San Francisco, CA | iMS Systems, Manchester, UK | iMS Systems, Manchester, UK |
| June 2024 - Present | July 2023 – June 2024 | June 2021- June 2023 |

## Projects

**iMS Systems**          [Javascript, MongoDB, Redis, Docker]
Description: iMS Systems is a SaaS Product that integrates business operations with ISO compliance, simplifying audits, enhancing visibility, and mitigating risks for better decision-making.

**GN Surveys**          [Typescript, Expressjs, MongoDB, node mailer]
Description: A SaaS solution for remote surveying with 2D/3D views, enabling document, location, and user management for efficient survey execution.

**Alice AI**          [OpenAI, Reactjs, Expressjs]
Description: Alice is an AI-powered Microsoft Word Add-in integrated with OpenAI API for AI-assisted editing. It helps users document compliance, identify risks, and suggest mitigation strategies.

## Undergrad Thesis & Projects

**Thesis**

**An Approach for Strengthening Smart Contract Security Through CEI, Re-entrancy Guard and Ethereum Virtual Machine Shield.**

Supervisor: Dr. Sk. Shariful Alam, Professor, Dept. of ECE, KUET, Khulna, Bangladesh.

## Projects

**Water spraying Quadcopter** [Arduino, Python, Controller]
Description: This quadcopter was designed and programmed in a way where it could fly up to 500m in the range of 1Km and spray water automatically. It saves itself from objects by detection and changes the direction of fly.

**Brain Cancer detection using CNN** [Python, CNN]
Description: A prediction model built with Convolutional Neural Network (CNN) which can detect brain tumor for MRI images up to 95% accuracy.

**School Management web app** [React, PHP, JWT]
Description: A student teacher management portal for course registration, course management, teacher and student management.

**Line Follower Robot** [Arduino, IR sensor, DC supply]
Description: Real time path detection and navigation bot that follows a line with optimization and accuracy.

## Technical Skills

| | |
|---|---|
| **Programming Languages** | Javascript, Python, C, C++,Typescript, HTML, CSS, PHP, MongoDB, MySQL |
| **Frameworks** | React, Angular, AngularJs, ExpressJs |
| **Machine Learning (ML)** | CNN, TensorFlow |
| **Design and Simulation** | MATLAB, Proteus |
| **Version Control** | Git, GitHub |
| **Graphics & Editing Software** | Photoshop, Illustrator, Premier Pro. |
| **Other** | Problem Solving, Leadership, Team building, Project management. |

## Achievements and Scholarships

**Google Codejam (Round 1)**
Qualified round 1 of google codejam competition by solving a problem using C++

**Math Olympiad**
Awarded with the 1st runner up position in junior category of Math Olympiad

**Hult Prize**
Securing 2nd runner up position of on-campus round participated in regional round

**HSC board scholarship**
Scholarship from Education Board, Dhaka.

**SSC Board Scholarship - General**
Scholarship from Education Board, Chittagong

## Achievements and Scholarships

**Dr. Sk. Shariful Alam**
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Khulna, Bangladesh.
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