

# Kazi Md. Al-Wakil

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## EDUCATION

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<b>BRAC University</b> <i>Master of Science in Computer Science and Engineering</i>	Dhaka, Bangladesh <i>June 2024 – Present</i>
<b>BRAC University</b> <i>Bachelor of Science in Computer Science</i> <b>CGPA: 3.98/4.00</b>	Dhaka, Bangladesh <i>May 2019 – September 2023</i>

## EXPERIENCE

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<b>Lecturer</b> <i>Northern University Bangladesh</i> <ul style="list-style-type: none"><li>Deliver lectures on core computer science courses, including Computer Networks, Mathematical analysis, to undergraduate students.</li><li>Design and implement engaging course materials, including lectures, labs, and assignments, to facilitate hands-on learning and practical application of concepts.</li><li>Engage in research activities to stay updated with advancements in technology, contributing to academic publications and professional development.</li></ul>	October 2024 – Present <i>Dhaka, Bangladesh</i>
<b>Software Engineer</b> <i>mPower Social Enterprises Ltd.</i> <ul style="list-style-type: none"><li>Developed and maintained full-stack applications using Typescript, Node.js, and React.js within an agile team.</li><li>Worked closely with design and product teams to translate wireframes and mockups into responsive, interactive features.</li><li>Optimized components for maximum performance across devices and browsers.</li><li>Collaborated with team members on technical solutions and troubleshooting issues.</li><li>Participated in code reviews and contributed to overall code quality by maintaining best practices.</li></ul>	October 2023 – October 2024 <i>Dhaka, Bangladesh</i>
<b>Undergraduate Teaching Assitant</b> <i>BRAC University</i> <ul style="list-style-type: none"><li>Assigned Courses:<ul style="list-style-type: none"><li>* CSE110: Programming Language I   CSE111: Programming Language II</li></ul></li></ul>	June 2022 – September 2023 <i>Dhaka, Bangladesh</i>

## PUBLICATIONS

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- [1] **Kazi Md. Al-Wakil**, Nafisa Nawal, Rifai Rahman, Sababa Rahman Meem, Sajid Rashid, Rafeed Rahman, Md. Golam Rabiul Alam. “**A Hybrid Video Recommendation System Prioritizing Features Using AHP**”. In: 27th International Conference on Computer and Information Technology, *ICCIT (2024)*.

## PROJECTS

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<b>Building a Computer Network</b>   <i>Cisco Packet Tracer</i> <ul style="list-style-type: none"><li>Developed a full computer network from scratch</li><li>Assigned IP addresses by both Manually and with the help of DHCP server</li><li>Created primary, secondary and default routes</li><li>Created web server and email servers</li><li>Each node was connected with each other either directly or indirectly</li></ul>	February 2023 – April 2023
<b>Wildfire Prediction Using Machine Learning</b>   <i>Pandas, Matplotlib, Scikit-learn</i> <ul style="list-style-type: none"><li>Developed a system to predict the confidence of the forest</li></ul>	February 2023 – April 2023

- Used KNN, Decision Tree, Random Forest, SVM, Linear Regression, ADAboost
- Evaluated the models using Root Mean Square Error

**Rent at BRACU** | *PHP Laravel Framework, MySQL Database, HTML, CSS, JavaScript* Sept. 2022 – Dec. 2022

- Developed a full-stack web application where students, faculties, staffs of BRAC University can Rent anything
- PHP Laravel framework used for the whole project and HTML, CSS as the frontend
- Used Test-First-Development approach

**Designing a 4-bit ALU to perform 4 different operations** | *Verilog* Sept. 2022 – Dec. 2022

- Developed a system which can perform ADD, SUB, XNOR, NAND operations
- The system is constructed using Verilog

**Diabetic Detection Using Machine Learning approach** | *NumPy, Scikit-learn, Pandas* May 2022 – Sept. 2022

- Developed a system to detect Diabetics among female patients
- Used Machine Learning Approach
- Used Decision Tree, Random Forest, K-Nearest Neighbor

## TECHNICAL SKILLS

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**Languages:** JavaScript, Java, Python, HTML/CSS, LaTeX, Markdown

**Frameworks & Libraries:** NodeJs, ReactJs, Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, Scikit-learn

**Developer Tools:** Overleaf, Git, VS Code, PyCharm, NetBeans, Google Colab, MS Office, Jupyter Notebook, Google Suite

**Other Software:** Adobe Photoshop, Adobe Illustrator, Wondershare Filmora, Audacity, OBS

## ACHIEVEMENTS

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**Merit Scholarship Based on BRACU Academic Results** January 2021 – September 2023  
*BRAC University* Dhaka, Bangladesh

- 75% waiver on Tuition Fees on every semester

**Vice Chancellor's List Award** September 2023  
*BRAC University* Dhaka, Bangladesh

- Got placed on VC's List for 7 semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters

## REFERENCES

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**Dr. Md. Golam Rabiul Alam**

*Professor, Department of Computer Science and Engineering, BRAC University*

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