

# Kazi Mostofa Sakin

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## Education

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**University of New Brunswick**  
Bachelor of Computer Science

Fredericton, New Brunswick  
January 2023 – December 2026

**Relevant Coursework:** Java, Data Structures and Algorithms, Database Systems, Discrete Mathematics, Graphic Design.

## Major Projects

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**UNB BSS Secure Voting Platform** | *WordPress, PHP, MySQL, GitHub*

October 2024

- Automated the UNB BSS election process with a secure WordPress-based platform, providing a seamless experience for 100+ users while conducting vulnerability assessment and mitigation strategies.
- Implemented platform security by implementing email-based authentication and token access control, preventing unauthorized logins with a 30-minute lockout after two failed attempts.
- Collaborated with faculty and student committee members to engineer a real-time voting dashboard using SQL, ensuring efficient querying of election data across 3 categories while creating comprehensive documentation for future use.

**SMS Spam Classifier** | *Python, Flask, Pandas, Scikit-learn, GitHub, Live View*

January 2025 – Present

- Developed an AI/ML-based SMS spam classifier in Python, achieving high F1-score using Logistic Regression, KNN, and Decision Trees. Conducted performance evaluation to ensure accuracy and reliability.
- Integrated a user feedback system, triggering self-learning after 50+ feedback entries to enhance model accuracy.
- Conducted a literature review on SMS spam detection techniques and analyzed the impact of user feedback using causal inference. Deployed on Railway with a controlled environment, ensuring 99% uptime and real-time detection.

**URL Shortener** | *Python, Flask, GitHub, Live View*

February 2025 – Present

- Created a Flask-based URL shortener with SQLite, supporting 56B+ URLs via base62 encoding, and adding authentication and analytics for scalability.
- Integrated Chart.js and ip-api.com API to visualize user click data, enabling behavioral analysis and data-driven content strategies. Modeled user interactions through a basic digital twin framework.
- Designed a responsive UI with Bootstrap and Chart.js, featuring QR code generation and cross-device compatibility.

## Work Experience

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**Web Developer Intern**

December 2023 – December 2024

*ROBOFLIGHT, Fredericton, NB*

- Deployed the company's first production website using Next.js, MongoDB, and TypeScript, serving over 500 users with a 99.9% uptime and reducing load times from 5 seconds to 3 seconds.
- Designed an interactive user dashboard with course registration, secure payment processing, and real-time analytics.
- Established an automated CI/CD pipeline with Vercel, reducing deployment time from 2 hours to 1 hour and enabling zero-downtime releases in an agile environment.
- Engineered a comprehensive admin backend for content management and user administration, reducing manual processes from 10 hours per week to 7 hours and improving operational efficiency by saving 5 hours weekly.

**Customer Service Representative**

May 2023 – Present

*IO Solutions, Fredericton, NB*

- Resolving 15+ daily technical issues related to network connectivity, device setup, and troubleshooting, boosting customer satisfaction scores by 20% based on post-interaction surveys.
- Managed migrations across Fido, Rogers, Cityfone, and Shaw, reducing downtime by 3 hours.
- Resolved 90% of customer inquiries on first contact, addressing complex billing and technical issues, and received commendation as the 'Most Knowledgeable Representative.'

## Skills

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**Programming Languages:** Python, Java, C++, JavaScript, TypeScript, SQL, R.

**Web Development:** HTML, CSS, Tailwind CSS, Chakra UI, React, Next.js, Express.js, Django, Flask.

**Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Power BI, Tableau, Matplotlib.

**Databases & Cloud Services:** MySQL, PostgreSQL, MongoDB, Firebase, AWS, Azure, Heroku, Vercel, Kubernetes.

**Machine Learning Algorithms:** Logistic Regression, Decision Trees, Random Forest, Neural Networks.

## Leadership and Volunteering

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### Webmaster

December 2023 – October 2024

*Bangladesh Student Society, UNB*

- Built secure and accessible WordPress website for UNB BSS, integrating custom PHP authentication and MySQL database management to enhance security. Integrated a secure online voting platform for 150+ members.
- Customized functionalities for real-time event updates, seamless communication, and improved user experience.
- Developed an automated event registration system using PHP, reducing manual data entry and improving data accuracy.