

# Kismat Ali

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## Experience

### Software Developer

Winnipeg, MB

*Cencadian Educational Incorporated, | Jun 2024 – Present*

- Developed a full-stack booking platform using React, Node.js, and MongoDB for real-time availability and secure reservations.
- Built responsive, mobile-first UIs with Tailwind CSS and modular React components for seamless cross-device experience.
- Integrated Nodemailer API for real-time email notifications, improving communication workflows.
- Implemented RESTful APIs with Express.js for booking, cancellation, and user management with secure authentication.
- Wrote unit and integration tests using Jest and React Testing Library to ensure component and API reliability.
- Designed optimized MongoDB schemas for scalable data storage and efficient query performance.
- Applied form validation and input sanitization to ensure data integrity and prevent injection attacks.
- Deployed backend on Netlify, ensuring fast and consistent performance under load.

## Education

### BSc Computer Science

Winnipeg, MB

*University of Manitoba | Graduated April 2025*

- GPA: 4.1 | Dean's Honor List: Fall 2020, Winter 2022, Fall 2022, Winter 2023

## Skills

- **Programming Languages:** Java, Python, C++, C, JavaScript, TypeScript, SQL, R
- **Frameworks and Libraries:** Node.js, Express, Flask, React, Redux, Bootstrap, Tailwind CSS
- **Databases and Tools:** MongoDB, MySQL, Firebase, Git, Android Studio, JUnit, SQLite, HSQLDB

## Projects

### Winnipeg Transit App [[🔗 Live Preview](#)]

- Developed a transit app using React and Tailwind CSS for real-time route planning and schedule visualization.
- Integrated Google Maps API for dynamic route mapping and step-by-step navigation.
- Implemented error handling and form validation to enhance user experience and prevent invalid queries.

### Decentralized Blockchain Ledger

- Built a blockchain network with Proof-of-Work consensus for secure, verifiable message storage.
- Engineered transaction validation, block creation, and peer-to-peer messaging via UDP.
- Implemented cryptographic hashing and dynamic difficulty adjustment for mining efficiency.

### Bukola Bliss Realtor Website

- Created a full-stack real estate app with 15+ dynamic property listings and a responsive React-based UI.
- Developed backend APIs for property uploads, image handling, and real-time admin dashboard updates.