

Fatema Tuj Johora

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EDUCATION

- **Toronto Metropolitan University** Toronto, ON
 - *Bachelor of Engineering in Computer Engineering* *September 2020 – April 2025*
 - Entrance Scholarship 2020
 - **Relevant Coursework:** Data Structure and Algorithm, Software Project Management, Database Management Systems, Network Security, Software Testing and QA, Cloud Computing

SKILLS

- **UX/UI Design:** User Research, Wireframing, Prototyping, Usability Testing, Interaction Design, Information Architecture, Design Systems
- **Design Tools:** Figma, Adobe XD, Canva, Balsamiq, Android Studio (UI Design), Firebase UI Integration
- **Front-End Development:** HTML, CSS, JavaScript, Responsive Design, Node.js, FastAPI
- **Programming:** Python, Java, SQL, Kotlin
- **Technical Methodologies:** Agile, Scrum, SDLC, OOP, Data Visualization, Azure, Power BI

PROJECTS

AI-Powered Conversational Knowledge Platform (LangChain + Pinecone)

- Designed a clean, user-friendly conversational interface enabling intuitive interaction with AI-powered document retrieval systems.
- Conducted user flow mapping and structured information architecture to improve content discoverability and reduce cognitive load.
- Built wireframes and iterative prototypes to enhance usability and accessibility of the AI response interface.
- Integrated backend logic using FastAPI while ensuring seamless front-end user experience and responsive design principles.

Machine Learning-Based IVF Prediction Mobile Application (Capstone Project)

- Led UX research and competitive analysis of fertility applications (Embie, Berry Fertility, Alfie) to identify usability gaps and design opportunities.
- Designed low- and high-fidelity wireframes focusing on accessibility, emotional sensitivity, and user trust in healthcare applications.
- Created intuitive UI components in Android Studio, optimizing navigation, input forms, and data visualization for improved user engagement.
- Integrated ML predictions using TensorFlow Lite while maintaining a seamless and non-technical user experience.

Automated Library Management System

- Designed user-centric dashboards for customers, authors, and administrators with role-based interface personalization.
- Developed intuitive workflows for book search, rental, and return processes to improve task efficiency and reduce user errors.
- Applied usability principles to simplify navigation and enhance clarity in authentication and catalog management interfaces.
- Built full-stack implementation using FastAPI, JavaScript, and SQL while ensuring responsive and accessible UI design.

CERTIFICATES

- **AWS:** AWS certified AI Practitioner (On going)