Nafis Rayan

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EXPERIENCE

★ **Nuvro AI** — **Dhaka, Bangladesh**
React Native Developer — *Jun 2025 – Present*
  - ☆ **App Development**: Led Android and iOS apps development using React Native framework and best practices.
  - ☆ **Mobile Architecture**: Maintained scalable cross-platform codebases with focus on performance and reliability.
  - ☆ **Collaboration**: Worked closely with Figma designers and backend engineers to create seamless user experiences.

★ **Tech-Dojo** — **Dhaka, Bangladesh**
Software Engineer — *Feb 2024 - Jun 2025*
  - ☆ **MERN Stack**: Built scalable full-stack web applications using MongoDB, Express, React, and Node.js.
  - ☆ **ThreeJS**: Implemented immersive 3D and VR experiences on web platforms using ThreeJS library.
  - ☆ **React Native**: Developed performant Android and iOS apps using React Native framework and Expo tooling.
  - ☆ **Database Optimization**: Improved database efficiency by optimizing complex SQL queries and indexing strategies.

★ **College Mastermind** — **Arizona, USA (Remote)**
Full Stack Developer — *Apr 2023 – Jan 2024*
  - ☆ **Platform Development**: Built a full-featured platform with MERN stack, Tailwind CSS, and RESTful APIs.
  - ☆ **Dashboard & CRM**: Dashboards for managing student data, assignments, and admission tracking efficiently.
  - ☆ **Third-Party Integrations**: Integrated scheduling, email, and document sharing APIs for seamless workflows.
  - ☆ **Deployment**: Tested and deployed app using Vercel and Heroku, set up version control and CI/CD.

★ **BRACU Dichari & Mongol-Tori** — **Dhaka, Bangladesh**
AI & Firmware Engineer — *Jan 2022 – Mar 2023*
  - ☆ **AI Algorithms**: Designed and implemented AI algorithms for autonomous navigation of rover robots.
  - ☆ **Firmware Development**: Developed embedded firmware enabling real-time localization and data transmission.
  - ☆ **Rescue Robots**: Engineered AI-powered robots equipped with IoT for intelligent rescue and disaster response.
  - ☆ **Computer Vision**: Utilized OpenCV to build navigation and image-processing algorithms for real-time telemetry.

EDUCATION

★ **BRAC University** — **Dhaka, Bangladesh**
Bachelor of Science in Computer Science & Engineering — *2021 - 2025*

PROJECTS

★ **VRIA**: An innovative VR Assistant application using ThreeJS for 3D visualization, YOLO for visual context processing, Python Flask for backend, and HuggingFace API for voice-activated AI chat with real-time rendering.

★ **DecentAI**: Platform built using React.js and Flask, combining blockchain technology with AI to create a secure and intelligent space for community engagement and policy discussions with meaningful interactions and sentiment analysis.

★ **AI Customer Support**: A chat-based application with LLM powered by APIs and local NLP tools for AI-enhanced conversations, allowing users to upload PDF, TXT, DOCX files, and use real-time URLs for contextual conversations.

★ **3D Product Configurator:**: A powerful, customizable tray configuration tool built with React-Three-Fiber, Next.js, and Tailwind CSS. It is a versatile tool for creating and managing complex 3D models and layouts.

★ **PortalUp**: Web-based file upload system using React.js frontend and Express backend with MongoDB to share or upload documents and image files and receive temporary URLs for secure, time-limited access.

★ **Fashion Ecommerce:**: Modern e-commerce site using Next.js, TypeScript, ShadCN, Redux, and Framer Motion.

★ **Fintech Mobile App:**: React Native financial app with multiple features like account management, budgeting tools.

★ **AndroidTV**: Netflix-like mobile streaming app built with React Native and Expo featuring a robust user interface.

★ **Ecommerce Mobile:**: React Native e-commerce app with product catalog, shopping cart, and order management.

★ **YoloEYE**: A computer vision surveillance system using pretrained YOLO models for efficient object detection with a Streamlit interface. Supports YOLOv(8-10) for real-time detection in images and video streams.

RESEARCH

★ **The 11th International Conference on Networking, Systems and Security**: Developing an Intelligent Virtual Assistant for Extended Reality Environments: A Multi-Modal Approach for Understanding User Intent and Context using Computer Vision, Natural Language Processing, and Large Language Model.