

TOUHIDUL ISLAM CHAYAN

Software Engineer

Specialize in Front-end Development & UI/UX Design

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ABOUT ME

Full-stack engineer specializing in front-end development, with expertise in building scalable applications and leading technical teams. Combines strong architectural vision with hands-on development skills in modern JavaScript (Typescript) frameworks and AI integration. Proven track record of driving innovation in startup environments through efficient, user-centric solutions.


EDUCATION

Fleming College

 2024 Sept - Present | Peterborough, ON

- PGD in Wireless Information Networking

BRAC University

 2017 Sept - 2022 Jan | Dhaka, Bangladesh

- BSc in Computer Science and Engineering

Research Thesis Paper

CGPA - 3.05

- [IEEE CSDE/i-COSTE 2022 Conference and Indexed on IEEE Xplore digital library](#)

NOTABLE PROJECTS

- Created and maintained [chnsui](#) - A reusable React UI component library
- Built [client.ad-iq.com](#) and [mission-control.ad-iq.com](#) - Real-time ad performance monitoring platforms with UI design [AD-IQ](#)
- Led development of [Omni Attention](#) platform - An AI-driven DOOH management system with real-time analytics
- Built [Ontario Pulse](#) - Regional news and information platform
- Created [Flyboarding PTBO](#) - Water sports booking platform
- Created [WhoWorksWhen](#) - Employee scheduling and shift management system
- Developed [Broker Portal](#) - Multi tenant brokerage status tracking and management platform
- Developed [Lienzo](#) - A SaaS platform providing scalable software licensing solutions for businesses, with automated license management and usage analytics
- Built [Fleming ERS](#) - Campus-wide Equipment Request Management system that streamlines resource allocation, tracking, and maintenance for educational institutions
- Designed and developed [Impact Hub Dhaka](#) - Bangladesh's premier entrepreneurial community platform that connects innovators, entrepreneurs and professionals.

PROFESSIONAL EXPERIENCE

OonkoO | Founder & CTO

 June 2023 - Present |  Peterborough, ON

- Architected scalable software solutions across multiple industries, implementing modern stack (Next.js 15 with server actions, React Native, Node.js)
- Developed of multiple successful products: OonkoO website, Omni Attention, Flyboarding PTBO, Broker Portal, Lienzo, Fleming ERS and WhoWorksWhen
- Managed global development teams across time zones, maintaining 95% on-time delivery rate
- Established company-wide design system and development standards, reducing development cycles by 30%

Omni Attention Division

 August 2023 - Present |  Peterborough, ON

- Designed comprehensive ad performance monitoring system with Brandings managing 20+ digital screens and developed landing pages with Next.JS 14.2.6

City Group (AD-IQ) | Software Engineer

 June 2022 - August 2023 |  Dhaka, Bangladesh

- Architected and developed AD-IQ Project, a DOOH retail platform operating 12+ hours daily with remote monitoring, securing \$23M CAD (₳200 Crore) in investment and subsequent acquisition by City Group
- Engineered scalable Android application using React Native for initial 20-screen deployment, integrating custom playlist API with MongoDB and Node.js backend
- Developed high-performance serverless architecture using Next.js 13, Prisma, and PlanetScale, achieving 25% reduction in operational costs
- Led development of business-critical internal software using React.js and Material UI, resulting in 40% improvement in operational efficiency
- Implemented TypeScript-based frontend with tRPC, achieving 99% type safety coverage across the application
- Built specialized medical imaging solution for Asgar Ali hospital, featuring DICOM viewer and ML-based disease detection capabilities

The Boring Platform (DD-AD) | UI/UX & Software Engineer

 January 2021 - May 2022 |  Dhaka, Bangladesh

- Led development of in-house cash-cow software using React.js and Material UI, improving operational efficiency by 40%
- Created comprehensive UI/UX design system using Adobe XD, establishing consistent design language across products
- Developed and launched AD-IQ Project and Mind Share Kiosk Project.

Ban Base Project Division

 July 2021 - May 2022 |  Dhaka, Bangladesh

- Built full-stack solutions using React.js and Express.js for multiple client projects
- Implemented interactive UI/UX prototypes with Adobe XD for 6+ client websites
- Created custom 3D elements using Blender and Spline, enhancing user engagement by 35%

TECHNICAL SKILLS

- Frontend:** React.js, Next.js, Javascript, TypeScript, React Native, Tailwind CSS, ShadCN UI, Material UI, Daisy UI
- Backend:** Node.js (Express, Nest.js), Python (Flask), MongoDB, PostgreSQL, MongoDB, SQLite, TypeORM, Prisma
- DevOps:** CI/CD, Git, Serverless Architecture
- AI/ML:** Computer Vision (CNN, FDNN), TensorFlow, Transfer Learning, XAI Frameworks (LIME, SHAP)
- Design:** Adobe XD, Figma, Framer, Spline, Blender