

Ibte haz Ali Chowdhury

Full Stack Developer

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Location: Sydney, NSW, Australia

Professional Summary

Full Stack Developer with 3+ years of experience building scalable multi-tenant applications, real-time communication systems, and microservices architectures using React.js, ASP.NET Core, Node.js, and cloud platforms. Skilled in designing end-to-end solutions from database architecture to responsive frontends, with hands-on production deployments across Azure and AWS environments.

Education

University of Wollongong Wollongong, NSW, Australia
Master of Computer Science (Machine Learning & Big Data); Graduated 2023 – 2025

- Capstone: Real-time audio deepfake detection system — achieved High Distinction
- Tutored and mentored peers in programming fundamentals, data structures, and web development

Experience

Full Stack Developer Intern January 2026 – Present
IPP Technologies Macquarie Park, NSW, Australia

- **Appointment Booking Platform:** Built a multi-tenant appointment booking system using Node.js, Express, MongoDB, DynamoDB, and Redis with dynamic slot generation, recurring bookings, and automated email notifications
- **Video Conferencing App:** Architected a Teams-like video conferencing application with WebRTC, Socket.io, and React, implementing lobby waiting rooms, calendar-based scheduling, call recording, and multi-tenant RBAC
- **DocForge Office Suite:** Developed a multi-tenant document editing suite using Express.js, React, PostgreSQL, Prisma, MinIO, and Redis with .docx/.xlsx/.pptx editing via WOPI protocol, native Markdown editing, three-tier billing, and subdomain-based tenant isolation
- **End-to-End Ownership:** Owned full project lifecycle from architecture design to deployment across all three applications, producing technical documentation and presenting progress to stakeholders

Warehouse Associate December 2024 – Present
Primary Connect / Adecco Sydney, NSW, Australia

- Operate across rotating stations including Dematic automation systems (palletisation, depalletisation, decant, GTP), QA, and IT/admin support in a high-throughput distribution centre

Freelance Full Stack Developer February 2026
Architex – Streetwear E-Commerce Platform Remote

- Built a complete e-commerce platform from scratch for a streetwear brand using React, Firebase (Auth, Firestore, Storage, Cloud Functions v2), and Tailwind CSS with a real-time admin dashboard
- Developed Cloud Functions for transactional emails (Nodemailer), secure account deletion (Admin SDK), and automated lead enrichment pipelines with Firestore triggers

React Developer (Internship) July 2024 – October 2024
QuickSite Guru Sydney, NSW, Australia (Remote)

- Developed responsive React.js applications using TypeScript and ES6+, delivering reusable UI components with PWA functionality
- Optimized performance through code splitting and lazy loading, collaborating with Agile teams to integrate frontend with RESTful APIs

Cloud Engineer / Back-end Developer September 2021 – September 2022
ARS Analytics Remote

- **Cloud Infrastructure:** Designed and deployed scalable Azure infrastructure using Virtual Machines, Azure SQL Database, and Cosmos DB, supporting multiple client applications with 99.9% uptime

- **API & Microservices:** Built secure RESTful APIs and microservices using ASP.NET Core and .NET Framework with OAuth 2.0 authentication, rate limiting, and third-party integrations including payment gateways and CRM systems
- **DevOps & Automation:** Containerized applications using Docker and automated deployment pipelines via Azure DevOps Server with CI/CD workflows
- **Database Engineering:** Developed Azure SQL Database schemas with stored procedures, indexing strategies reducing query response times by 45%, and MongoDB-based data processing solutions for client reporting
- **Testing & Quality:** Implemented Unit Testing and Integration Testing suites using xUnit and Moq frameworks, achieving 90% bug detection pre-deployment

Back-end Developer

Absolute Point

January 2021 – June 2021

Dhaka, Bangladesh

- Built backend infrastructure using Node.js, Express.js, and AWS with PostgreSQL and Redis caching for a Resource Management System supporting 100+ concurrent users

Projects

Healthcare Appointment Platform | .NET 9.0, React, PostgreSQL, RabbitMQ, Docker, Python, MinIO

- GitHub: github.com/lbtehazC/healthcare-appointment-platform
- Built microservices-based platform with four .NET services following Clean Architecture, featuring patient management, doctor scheduling with Redis caching, and optimistic concurrency booking
- Developed Python AI service using Tesseract OCR and LangChain for automated prescription extraction with confidence scoring
- Integrated RabbitMQ event-driven architecture, SignalR real-time updates, and YARP API Gateway with double-booking prevention

PCOS Fitness & Nutrition App | React.js, TypeScript, Firebase, Material-UI

- GitHub: github.com/lbtehazC/pcos-fitness-app
- Developed mobile-first PWA for women with PCOS featuring AI-powered workout generation, symptom-based customization, and personalized exercise recommendations
- Built with React 18+, TypeScript, Firebase Auth with Google OAuth, Cloud Firestore, and Material-UI v5 with offline functionality

Audio Spam Call Detection – Capstone | Next.js, TypeScript, Flask, Machine Learning

- GitHub: github.com/lbtehazC/audio-spam-call-detection-capstone-project
- Built real-time audio deepfake detection system with WebRTC peer-to-peer calling, Socket.io live analysis, and ML classification achieving 92% accuracy across 1,000+ samples
- Developed with Next.js 14, TypeScript, Flask backend, Clerk auth, and responsive UI using Tailwind CSS and Radix UI

Technical Skills

Frontend: React.js, JavaScript ES6+, TypeScript, HTML5, CSS3, Tailwind CSS, Bootstrap 5.3, jQuery, Progressive Web Apps

Backend: ASP.NET Core, .NET Framework, Node.js, Express.js, Python, RESTful APIs, WebSockets, Socket.io, WOPI Protocol

Cloud & DevOps: Microsoft Azure, Amazon Web Services (AWS), Docker, Azure DevOps Server, Firebase, CI/CD Pipelines

Databases: Azure SQL Database, PostgreSQL, MongoDB, DynamoDB, Cosmos DB, Redis, MinIO, Prisma ORM, Firebase Firestore

Tools & Practices: Git, Agile/Scrum, Microservices Architecture, Multi-Tenant Architecture, WebRTC, Unit Testing, Integration Testing

Certifications

IBM Full-Stack Developer Professional Certificate | IBM Data Science Professional Certificate