

Mahir Al Kamal

Software Engineer | Frontend

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Software Engineer with 3+ years of experience in React and TypeScript development, specializing in architecting robust, scalable frontend systems using React, TypeScript, and Redux, with a proven track record of delivering high-security, national-scale digital infrastructure for government commissions and global B2B analytics. Beyond enterprise solutions, I am an active builder of interactive personal projects—ranging from full-stack e-commerce platforms to real-time digital board games. I leverage AI-driven development tools to accelerate coding workflows, optimize performance, and maintain high standards of code quality, ensuring rapid delivery without compromising on security or user experience.

SKILLS

Frontend: React.js, TypeScript, JavaScript (ES6+), HTML5, CSS3

State Management: Redux, Redux Thunk, Context API

Backend & Database: Node.js, Express.js, MongoDB, Firestore

UI & Styling: Tailwind CSS, Bootstrap, Material UI

Data & Visualization: AWS QuickSight, Data Visualization

Tools & Platforms: Git, GitHub, GitLab, VS Code, Firebase, Vercel, Render

Professional Experience & Training

Penta Global Limited | Dhaka, Bangladesh

Software Engineer | **October 2023 – Present**

Project: Yaana Neustring (Wholesale Roaming Analytics)

Worked on a B2B roaming analytics platform built with Jinja and jQuery, progressively migrated to a modern React + TypeScript architecture.

- Migrated legacy Jinja + jQuery features into modular React + TypeScript components
- Built high-volume data dashboards and dynamic tables for analytics workflows
- Developed Amazon QuickSight dashboards using custom analytical queries

Tech Stack: React.js, TypeScript, Jinja, jQuery, Redux, AWS QuickSight

Project: Election Management System (EMS) & Online Nomination System (ONS)

National-scale election platforms digitizing voter, nomination, and result management workflows for Bangladesh Election Commission.

- Developed frontend modules for a national election platform serving 119M+ voters
- Built high-performance components for nomination tracking and real-time result reporting
- Optimized React UI rendering to support high-traffic result declaration

Tech Stack: React.js, Redux, JavaScript (ES6), Inhouse Component Library

Project: Anti-Corruption Commission (ACC) - ERP Platform

Governance ERP system for tracking and operational transparency.

- Developed React-based frontend modules for case and workflow management
- Integrated secure APIs to unify data and user actions in a single interface
- Improved workflow efficiency through structured UI and API-driven views

Tech Stack: React.js, Redux, JavaScript (ES6), Inhouse Component Library

Independent University Bangladesh | Dhaka, Bangladesh

Adjunct Faculty & Research Assistant | **January 2023 – January 2025**

Conducted lab courses on programming, data structures, and algorithms while mentoring students in web development competitions and internships.

- Conducted Python lab sessions and student projects for practical learning
- Mentored students in web development competitions and internship projects, providing guidance on frontend best practices
- Collaborated with faculty on research topic analysis and technical evaluations
- Developed and maintained the IUB university website frontend using React, TypeScript, Tailwind CSS, and Redux – [Independent University Bangladesh](#)

Tech Stack: Python, React.js, TypeScript, Tailwind CSS, Redux

Personal Projects

Project: Battle of Polashi - Digital Social Deduction Game

Digital version of a popular social deduction board game with multiplayer interactions and hidden-role mechanics.

- Engineered real-time state synchronization for seamless multiplayer gameplay
- Implemented hidden-role logic and interactive game flows for multiple players
- Game data tracking for analysis using Firestore

Tech Stack: React.js, Socket, Node.js, Express.js, Firebase, Firestore, Tailwind CSS

[Client Repo](#) | [Server Repo](#) | [Live Site](#)

Project: Voter Management & Digital Outreach System

A centralized platform designed to streamline voter area identification and automate the generation of personalized digital voting slips for grassroots campaigning.

- Engineered an advanced searchable interface for complex location hierarchies, allowing rapid filtering by Ward, Area, and Voter Name
- Implemented a dynamic "Digital Voter Slip" generator that converts real-time voter data into high-quality, downloadable PDF documents for offline distribution
- Optimized data visualization with an adaptive Ag-Grid integration, ensuring smooth performance even when handling large-scale voter databases

Tech Stack: React.js, Tailwind CSS, Ag-Grid, Node.js, Express.js, PostgreSQL/MongoDB, modern-screenshot

[Live Site](#)

Project: ZipGrip Tooling - E-commerce Platform

Built a full-stack e-commerce platform with secure authentication, profile management, and order handling.

- Integrated Stripe API for secure payments and transactions
- Developed an admin dashboard for automated inventory updates and order tracking

Tech Stack: React.js, Node.js, Express.js, MongoDB, Firebase, Tailwind CSS, Stripe

[Client Repo](#) | [Server Repo](#) | [Live Site](#)

EDUCATION

Bachelor of Science in Computer Science and Engineering

Institute: Independent University, Bangladesh

CGPA: 3.67 on a scale of 4.00

Passing Year: 2021

Languages

English- Full Professional Proficiency

Bangla- Native or Bilingual Proficiency