Md. Mahir Asef

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EDUCATION

Dhaka Polytechnic Institute   **Tejgaon, Dhaka-1208**

Diploma in Engineering (Computer Science and Technology)   *Expected September 2029*

Relevant Coursework: Programming in Python

SKILLS

Programming Languages: TypeScript, JavaScript, Python
Backend: Node.js, REST APIs, JWT Auth, Prisma ORM, Next.js, Express.js
Frontend: React.js, HTML, CSS, React Native (Expo), Electron.js, Tailwind CSS
Testing: Unit Testing
Database: SQL, PostgreSQL, MySQL, MongoDB
Software: Git/GitHub, VS Code, Docker, Postman, Cursor AI, ChatGPT
OS: Linux, Windows
Languages: English (Fluent), Bangla (Native)

PROJECTS

E-commerce Web Application   GitHub: github.com/Md-Mahir-Asef/e-commerce

E-commerce Web Application — Full-stack, production-ready platform with secure auth, RBAC, and scalable order processing.

- **Built** a full-stack e-commerce platform using **TypeScript**, **Node.js**, **Express**, **PostgreSQL**, and **Prisma ORM**, supporting **secure auth**, **product catalog**, and **order workflows end-to-end**.
- **Designed and implemented** RESTful APIs with **JWT-based authentication**, enabling **secure session handling** and **protected resource access** across user roles.
- **Implemented Role-Based Access Control** (admin, user, visitor), reducing **unauthorized access paths** and clearly **separating privilege boundaries**.
- **Optimized** database queries using **pagination** and Prisma query patterns, improving **data retrieval scalability** and **API response consistency** under **load**.
- **Containerized** backend, frontend, and PostgreSQL services with **Docker**, ensuring consistent **local development** and **deployment-ready environments**.

KV Link Manager   GitHub: github.com/Md-Mahir-Asef/kv-link-manager-browser-extension

KV Link Manager – Browser Extension — Browser extension for managing links as key-value pairs with auto-detection of page titles and URLs, boosting user productivity.

- **Built** a Chrome extension using React, TypeScript, and Vite, **enabling** users to create, delete, and organize links efficiently.
- **Implemented** automatic tab title and URL detection, **reducing** manual input and improving user workflow speed.
- **Performed** CRUD operations on browser local storage, **ensuring** persistent and reliable link management without backend dependency.
- **Designed** a simple, productive UI, **enhancing** usability and making navigation of saved links intuitive.
- **Learned** Chrome extension development and client-side storage handling, **gaining** full-stack extension-building experience.