



MD. SHAZAN MAHMUD ARPON

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SUMMARY

Results-driven Computer Science & Engineering student with strong hands-on experience in modern software frameworks, backend systems, and full-stack development, complemented by extensive background in IoT and embedded systems. Proficient in React, Next.js, Node.js, Express, Spring Boot, Laravel, and database-driven applications using MySQL, MongoDB, PostgreSQL. Experienced in building RESTful APIs, real-time applications, and scalable web systems, with production deployments using Docker, AWS, Firebase, Vercel, and Heroku. Additionally, has long-term experience (since 2018) designing automation and smart hardware systems using Arduino, ESP32, Raspberry Pi, and sensor-based architectures.

EXPERIENCE

BACKEND DEVELOPMENT LEAD
UIU ROBOTICS CLUB, DHAKA
2024 – PRESENT

- LEAD BACKEND DEVELOPMENT FOR CLUB SOFTWARE PROJECTS USING SPRING BOOT AND LARAVEL
- DEVELOPED FULL-STACK FEATURES INTEGRATING REACT.JS WITH SPRING BOOT AND LARAVEL BACKENDS
- DESIGNED API CONTRACTS, HANDLED BUSINESS LOGIC, AND ENSURED CODE QUALITY
- COORDINATED WITH FRONTEND DEVELOPERS AND REVIEWED BACKEND IMPLEMENTATIONS
- SUPPORTED SYSTEM ARCHITECTURE PLANNING AND FEATURE DELIVERY

FREELANCE FRONTEND & BACKEND DEVELOPER
LOCAL CLIENTS, DHAKA
2024 – PRESENT

- DEVELOPED AND DELIVERED CLIENT-FACING WEB APPLICATIONS USING REACT.JS AND LARAVEL
- BUILT BACKEND FEATURES INCLUDING RESTFUL APIS, AUTHENTICATION, AND ROLE-BASED ACCESS CONTROL
- DESIGNED AND MANAGED DATABASES USING MYSQL AND POSTGRESQL
- WORKED CLOSELY WITH CLIENTS TO GATHER REQUIREMENTS AND IMPLEMENT REQUESTED FEATURES
- DEPLOYED AND MAINTAINED APPLICATIONS USING C-PANEL AND H-PANEL

SOFTWARE FRAMEWORKS & TECHNOLOGIES (PRIMARY)

Frontend Frameworks

- REACT.JS
- NEXT.JS
- REDUX
- TAILWIND CSS, BOOTSTRAP

Backend Frameworks

- SPRING BOOT
- NODE.JS & EXPRESS.JS
- LARAVEL

Databases

- MYSQL
- POSTGRESQL
- MONGODB
- FIREBASE (FIRESTORE, REALTIME DB)

Programming Languages

- JAVA
- JAVASCRIPT/ TYPESCRIPT
- PYTHON
- C / C++
- PHP
- DART

DevOps, Cloud & Deployment

- DOCKER
- HEROKU
- AWS
- FIREBASE HOSTING
- VERCEL
- GIT & GITHUB ACTIONS
- LINUX SERVER MANAGEMENT
- POSTMAN (API TESTING & DEBUGGING)

Cloud, Data & Storage Technologies

- OBJECT STORAGE CONCEPTS (BUCKET-BASED STORAGE, METADATA, ACCESS POLICIES)
- MINIO (S3-COMPATIBLE OBJECT STORAGE)
- FIREBASE STORAGE
- AWS S3 (CONCEPTUAL & COMPATIBLE APIS)
- ELASTICSEARCH (SEARCH, INDEXING, ANALYTICS)
- BACKEND-AS-A-SERVICE (BAAS / MBAAS) – FIREBASE
- SECURE FILE UPLOAD & RETRIEVAL
- LARGE MEDIA & UNSTRUCTURED DATA HANDLING
- REDIS (IN-MEMORY CACHE, KEY-VALUE STORE)

AI & API Integration

- COURIER & LOGISTICS APIS
- BKASH PAYMENT GATEWAY INTEGRATION
- AI APIS VIA REST
- YOLO-BASED OBJECT DETECTION
- AI-DRIVEN IOT AUTOMATION

EDUCATION

Bachelor of Science in Computer Science & Engineering (BSc in CSE)

United International University (UIU), Dhaka, Bangladesh

CGPA:3.25 || Completed Credits:71 (out of 138)

Current Trimester: 7th | Expected Graduation: 2028 (2027 Summer)

PROJECTS

- UIU ROBOTICS CLUB WEBSITE (REACT + LARAVEL)
- CHOLOKINI (ECOMMERCE WEB / REACT+ LARAVEL)
- PROPOSAL SITE (NEXT JS)
- BARTA(NGL CLONE / MERN)
- NETFLIX CLONE (MICRO SERVICE + MONOLYTIC/ SPRING BOOT)
- FITNESS TRACKER (MICRO SERVICE/ SPRING BOOT)
- ECOMMERCE BANCKEND (SPRING BOOT)
- JOB APP (SPRING BOOT)
- URL SHORTNER (SPRING BOOT)
- MESSENGER (SPRING BOOT)
- LMS BACKEND (SPRING BOOT)
- POS SYSTEM BACKEND (SPRING BOOT)
- LMS FRONT(NEXT JS)
- UIU MATRIMONI FRONTEND (NEXT JS)
- EMPLOYEE MANAGEMENT SYSTEM (MERN STACK)
- SCHOOL MANAGEMENT SYSTEM FRONTEND (NEXT JS)
- VIDEO CALLING APP (MERN STACK)
- NEST EASER (MERN STACK A SOLUTON PLATFROM)
- BLOG APP (MERN STACK)
- LMS SERVER BACKEND (EXPRESS JS)
- AUTH SYSTEM IN SPRING BOOT