

TOUHIDUL ISLAM SAAD

DATA ANALYST — FULL-STACK DEVELOPER — COMPUTER VISION RESEARCHER
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ABOUT ME

To leverage my expertise in data analysis, deep learning, and full-stack development using Node.js (NextJS, NestJS, Express.js) for 3 years, along with proficiency in Tailwind UI, ReactJS, PostgreSQL, MongoDB, and image segmentation research.

CERTIFICATION

IEEE Student Professional Awareness Venture (SPAVe) 6.0 — March 16th, 2023
Participant
Certified by IEEE AIUB Student Branch

EDUCATION

Bachelor of Science in Computer Science Engineering
American International University-Bangladesh (*AIUB*)
January 2022 - January 2025

LANGUAGES

Bangla



English



Française [*Alliance Française de Dhaka*]



WORK EXPERIENCE

Hands-on practice

- MERN Backend 7-8 January 2025
 - Built with Express JS, TypeScript, and MongoDB.
 - Implemented functionality to add a product with attributes: Name, Description, Price, Discount, Image URL, Availability, Unique product code.

- Auto-generated a unique code based on the product name by: Extracting the longest strictly increasing substring, Applying specific formatting.
- Ensured each product is linked to a valid category with validation for consistency.
- Enabled product updates, including: Status, Description, Discount and implemented filtering by: Category, Name, Pricing calculation with discount details.

Github Link

• Data Analysis

August - September 2024

- Analyzed the dataset with 768 entries.
- Handled missing values by filling them with zeros.
- Applied Naive Bayes algorithm for classification, predicting whether a patient has diabetes based on medical metrics.
- Achieved an accuracy of 78 percent, with a confusion matrix showing true positives, true negatives, false positives, and false negatives.

Github Link

• NextJS

April - May 2024

- AXIOS for making HTTP requests (API calls in NestJS).
- React core principles including Props, States, and Hooks.
- Next.js features such as routing, rendering, and libraries.
- Custom form validation using Vanilla JavaScript (without relying on HTML validation).
- Tailwind UI for styling.
- Authentication implementation.

Github Link

• NestJS

February - March 2024

- 15 APIs with comprehensive Controller and Service layers.
- Pipes for data transformation and validation.
- File upload functionality.
- Database relationships, including One-to-One and One-to-Many associations and query optimization.
- JWT, OAuth authentication alongside Bcrypt for password hashing and session management.
- Email functionality using the Mailer module with SMTP integration.

Github Link

- **Web technologies**

October - December 2023

- Developed using HTML, PHP, CSS, JavaScript, and Ajax, managed via XAMPP.
- Admin Features: Manage drivers, admins, earnings, locations, riders, and user route bookings.
- Customer Support Manager Features: Dashboard with trip summaries, history, driver earnings, reported issues, trip ratings, and feedback.
- Driver Features: Dashboard for profile management, license verification, support, responses, and ride requests.
- Rider Features: Ride tracking, trip history, cancellation, multiple payment options, emergency services, and ride scheduling.

Github Link

CORE SKILLS

- **Primary Programming Languages:** Python, JavaScript
- **Other Programming Languages:** C++ (OpenGL), Java, C#, R, HTML5, CSS3, PHP, Tailwind CSS, ReactJS
- **Advanced Database Management:** PostgreSQL, MongoDB, MySQL, Microsoft SQL Server (T-SQL, complex queries, stored procedures)
- **Visual Development:** Figma, Droip
- **API Development & Integration:** Postman API, RESTful API
- **Version Control & DevOps:** Git, Docker, Agile
- **Web & App Development Frameworks:** Socket.IO, Redux, Bootstrap
- **Software Testing & Automation:**
 - **Test Automation Tool:** Selenium
 - **Performance Testing:** JMeter
 - **Bug Tracking & Test Management:** Redmine
 - **Mobile Testing:** Appium
 - **UI/UX Testing:** SikuliX
- **Other Technical Skills:**
 - Data migration and integration, Data analysis and optimization
 - SOAP notes, Keyboard shortcuts, Web browsing, Operating remote desktop applications
 - Typing speed: 33 WPM / 156 CPM, Accuracy: 100%

SOFT SKILLS

- Communication, Adaptability, Leadership, Creativity, Time Management
- Attention to Detail, Cognitive Functionality, Proactive Mindset, Dynamic Thinking, Critical Issue Rationalization
- Client-facing Consulting Skills, Team Collaboration (Enterprise, Development, Technical Support, Product Teams), Innovation and Adaptability, Documentation and Technical Writing