Shanid Sajjatuz Islam

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Personal Site

Objective

A full-stack developer and tech enthusiast from Bangladesh, with a Bachelor of Science in Computer Science from BRAC University. Passionate about building scalable web applications and leveraging AI to deliver data-driven insights. Actively contributing to open-source projects, student clubs, and research, and now seeking an opportunity to further grow and apply my skills in software engineering.

Education

Bachelor of Science in Computer Science **2021–2025**
BRAC University, Dhaka, Bangladesh
Relevant coursework: Data Structures, Algorithms, Database Systems, Artificial Intelligence, Software Engineering.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, C++, basic Java
Frameworks: React, Next.js, Tailwind CSS, Node.js/Express, Redux, React Router, Socket.IO
Databases: MongoDB/Mongoose, PostgreSQL, MySQL, SQL, Supabase
AI/ML: Prompt-engineering with Gemini/GPT models, TensorFlow, PyTorch, scikit-learn
Tools: Git/GitHub, Jira, Trello, Vite, npm/yarn, Docker, VS Code, Figma, psql
Other: RESTful API design, authentication (JWT, Google OAuth), Mongoose ODM, Tailwind design systems, Agile development practices, documentation and technical writing

Major Projects

- **SurvEase** — Built a full-stack survey platform enabling users to design and distribute surveys via an intuitive drag-and-drop builder. Implemented real-time analytics dashboards with data visualisation and Google Gemini–powered insights such as sentiment analysis and pattern detection. Features include question logic, quality control mechanisms, export options, an administrative portal and light/dark themes. Technologies: **React**, **TypeScript**, **Node.js/Express**, **MongoDB**.
- **Camply** — Designed a campaign management platform for blood donation and fund-raising events. Users can create campaigns, manage participants, upload media galleries and monitor goal progress through real-time analytics. Integrated an AI writing assistant using Gemini to help organisers craft compelling campaign content and implemented secure authentication with JWT and Google OAuth. Front-end built with **React** and **Tailwind CSS**; back-end with **Node.js**, **Express** and **PostgreSQL**.
- **BookVerse** — Developed a MERN web application for buying, selling, auctioning and trading books. Implemented fixed-price listings, auctions and a unique trading system allowing users to propose exchanges. Included interactive chat for negotiations, offer system, AI-driven book recommendations via Gemini and PDF sharing features.
- **Stoxly** — Created a stock trading platform focused on the Dhaka Stock Exchange. Provided real-time stock quotes, interactive charts, portfolio management and buy/sell transactions with price alerts. Integrated AI modules to deliver personalised market insights and used a MERN stack with **TypeScript**, **Node.js/Express** and **MongoDB**.
- **Yggdrasoft Labs Website** — Built a mythologically inspired landing page for Yggdrasoft Labs. The site features a responsive design with scroll-triggered animations, dynamic content fetched from MongoDB and secure contact and newsletter forms. Ensured accessibility compliance (WCAG 2.1) and performance optimisation. Technologies: **React**, **Node.js**, **Express**, **MongoDB**.

Additional Projects

- **Modern Media Bias Detector** — Developed a production-ready web application to detect and analyse media bias in news articles using advanced NLP and machine-learning models. The system features a clean Material-UI interface, intelligent web scraping, real-time dashboards and secure authentication. Tech stack includes a **Python/Flask** backend, **React/TypeScript** frontend and persistent storage via **MongoDB**.
- **Real-Time Chat Application** — Built a full-stack chat platform enabling users to exchange messages in private and group channels with user authentication and presence indicators. Implemented using **React**, **Node.js/Express**, **Socket.IO** and **MongoDB** (project details provided by user; repository not publicly accessible).
- **Business & Economy Dashboard** — Created an interactive web dashboard for exploring economic indicators and business metrics across industries. Included data filtering, charts and analytics with a tech stack of **React**, **Node.js/Express** and **PostgreSQL** (project details provided by user; repository not publicly accessible).

Club Projects and Contributions

- **BRAC University Computer Club (BUCC) Web Portal** — Contributed to the development of BUCC's official web portal, a comprehensive platform that streamlines member registration, event management and internal communication. My role involved designing responsive registration and event pages, implementing secure user authentication, and building administrative dashboards for managing workshops and announcements. I also helped write onboarding documentation and maintain code quality as part of the R&D department.
- **BRAC University Business Club (Biz Bee) Recruitment Platform** — Developed and maintained the Business Club's recruitment platform (Biz Bee) to simplify membership and event workflows. I implemented digital application forms, automated candidate short-listing pipelines and event registration modules, ensuring data was validated and securely stored. The site features dedicated departmental pages for marketing, finance and human resources, along with dashboards that allow administrators to track applicants and monitor event metrics. Focused on responsive design and secure back-end logic to deliver a professional experience for prospective members.

Research Experience

Media Bias Detection using Machine Learning and Deep Learning — Designed and implemented a research project to detect media bias in news articles using Natural Language Processing. Applied CNNs and RNNs to identify sentiment and ideological alignment within text. Utilised techniques such as sentiment analysis, topic modelling and automated classification to evaluate biases. Presented findings to peers and mentors.

Leadership & Extracurricular

- **Excecutive, BRAC University Computer Club (R&D Department)** — Collaborated with peers to explore emerging technologies and contribute to research and development projects. Participated in technical workshops and hackathons, refining leadership and communication skills.
- **Hackathons and Competitions** — Actively participate in coding challenges and university hackathons, often assuming team lead or full-stack developer roles. Recognised for creative problem solving and effective project demos.

Last updated: December 19, 2025