

Seeyan Newaz

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EDUCATION

The University of Texas at Dallas, Richardson, TX

Bachelor of Science in Computer Science

Aug 2022-May 2026

Cumulative GPA: 3.89/4.00

Organizations: Bangladeshi Student Organization (Member), Artificial Intelligence Society (Member), The Association for Computing Machinery UTD (Project participant)

Achievements: Academic Excellence Scholar, Dean's List, Edexcel High Achievers' Award, The Daily Star Award

Languages: English, Bengali, Urdu, Hindi

DEVELOPMENT SKILLSET

Programming Languages: C, C#, C++, Java, Python, HTML, PHP, CSS, Javascript, Assembly, Dart, SQL

Frameworks and Libraries: Flask, Flutter, React, Chakra UI, SQLAlchemy, Framer Motion, Next.js, Node.js, Tailwind CSS

Development Tools: Visual Studio, VS Code, IntelliJ IDEA, Jupyter, Google Colab, Git/Github, Firebase, Linux, Postman

WORK EXPERIENCE

Peer Tutor for Calculus and Linear Algebra, Student Success Center, The University of Texas at Dallas

Aug 2023-present

- Helping students understand the complex and higher-level concepts of **Calculus and Linear Algebra** by engaging in one-on-one tutoring sessions and achieving a **100%** satisfaction rate.
- Adapting teaching strategies unique to different learner styles resulting in a grade increase of **60%** students.
- Working in a **collaborative** environment dedicated to a growth mindset and an increased confidence of students in **Calculus and Linear Algebra**.

Software Developer Intern, Paycom | ASP.NET Core, C#, React, TypeScript, Apache OpenNLP, PdfPig

May 2025-Aug 2025

- Developed a full-stack PDF data extraction pipeline for new-client onboarding with total potential savings of **\$1M+**.
- Designed an interactive annotations tool and intelligent table detection algorithms to save up to **5 days** of manual data setup per client.
- Engineered and trained custom **NLP** models for **Named Entity Recognition** to extract structured data entities.
- Architected a backend data extraction system to infer relationships among data and classify data automatically.
- Managed GitLab-based **CI/CD** pipelines and version control in a collaborative, constraint-driven environment.

PROJECTS

HydraWatch | Python, JavaScript, Flask, Next.js, SQLite, SQLAlchemy, Tailwind CSS

Nov 2024-Nov 2024

- Built a Flask web app with a team of 5 at HackUTD for EOG Resources, integrating a **95%**-accurate **ML** model to predict hydrate formation in gas pipelines with real-time visualization and anomaly detection.
- Developed an interactive **Next.js** frontend with **TailwindCSS** and **Framer Motion**, delivering dynamic dashboards for live hydration predictions and alerts.
- Designed a scalable **SQLite** database managing **100,000+** data points from IoT sensors and CSVs, ensuring efficient data retrieval and predictive analysis.
- Trained a linear regression **ML** model in **Google Colab** with 4 months of sensor data, optimizing real-time gas pipeline operations by predicting hydrate formation.

Listernships | Python, Javascript, React, SQLite, SQLAlchemy, Flask, Chakra UI

Sept 2024-Oct 2024

- Developed a **full-stack** web app to manage internship applications, allowing users to track and organize application details, including status updates (pending, accepted, rejected).
- Designed and implemented create, read, update and delete (**CRUD**) functionalities for efficient application management, leveraging a **SQLite** database for seamless data storage and retrieval.
- Enabled real-time updates to application information and status, ensuring organized, up-to-date and accurate record-keeping for users.
- Improved user experience by integrating **Chakra UI** components, including a dark mode feature for customizable and accessible interfaces.
- Built a **responsive design** to deliver an optimized user experience across devices of varying screen sizes.

Expert Events | Dart, Flutter, Firebase, Firestore, GPT-4 turbo

Feb 2024-Apr 2024

- Collaborated with a team of 5 to develop a **full-stack** android app connecting **50+** university organizations with **30,000+** students through organization-hosted events to foster community engagement.
- Trained and integrated a **GPT-4 Turbo** AI chatbot for personalized event recommendations with **90%** accuracy.
- Designed a dynamic calendar with **Firestore** and integrated date formatting for real-time event management, boosting functionality and achieving **93%** user satisfaction.
- Optimized **Firestore** database schema for **50%** faster data retrieval than default SQL database, and seamless real-time synchronization, ensuring data integrity and efficient storage.