

SEYYAN NEWAZ

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EDUCATION

The University of Texas at Dallas

Bachelor of Science in Computer Science

Aug 2022 – May 2026

GPA: 3.91

- Achievements:** Academic Excellence Scholarship, Dean's List, Edexcel High Achievers' Award, The Daily Star Award
- Relevant Coursework:** Computer Architecture (MIPS), Discrete Mathematics, Data Structures & Algorithms, Programming Languages & Paradigms, Probability & Statistics in CS & SE, Database Systems, Digital Logic, Computer Networks
- Organizations:** Association for Computing Machinery- The University of Texas at Dallas Chapter (Member), Bangladeshi Student Organization at UTD (Member), Artificial Intelligence Society at UTD (Member)

TECHNICAL SKILLS

Languages: C, C#, C++, Java, Python, HTML, PHP, CSS, JavaScript, TypeScript, Assembly, Dart, SQL, Lisp, Prolog

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

Developer Tools: Jira, PostgreSQL, Firebase, Visual Studio, VS Code, IntelliJ IDEA, Jupyter, Google Colab, Git/GitHub/GitLab, Linux, Postman, Docker, Kubernetes

EXPERIENCE

Peer Tutor for Calculus & Linear Algebra

Aug 2023 – Present

Student Success Center, The University of Texas at Dallas

Richardson, TX

- Tutored 500+ undergraduates, earning a 100% satisfaction rate and driving a 60% average grade improvement.
- Tailored instruction to diverse learning styles, boosting student confidence and mastery of core concepts.
- Created custom problem sets with detailed solutions to strengthen retention and exam performance.

Software Developer Intern

May 2025 – Aug 2025

Paycom

Irving, TX

- Built a full-stack PDF data extraction pipeline using C# & .NET for new-client onboarding, enabling \$1M+ potential savings.
- Developed an interactive annotations tool and table detection algorithms to cut manual setup by up to 5 days/client.
- Designed and trained custom NLP & NER models using Apache OpenNLP to extract structured entities.
- Architected backend systems to infer relationships and auto-classify data for efficient extraction.
- Managed CI/CD pipelines and version control in GitLab, driving collaboration under constraints.

Backend Software Developer

Feb 2024 – April 2024

Association for Computing Machinery- The University of Texas at Dallas Chapter

Richardson, TX

- Worked in team of 5 to develop an Android app connecting 30,000+ students to events from 50+ university organizations.
- Integrated AI chatbot (OpenAI GPT-4 Turbo) providing personalized event recommendations with 90% accuracy.
- Designed a Firestore NoSQL schema for 50% more efficient data retrieval and seamless real-time sync.

PROJECTS

InboxIntel | Python, Streamlit, PostgreSQL, Gmail API, OpenAI API

Nov 2025

- Built an AI-powered, full-stack email triage system using Gmail API to retrieve and process unread messages in real time.
- Integrated GPT-5.1 for automated summarization, priority classification, task extraction, and reply draft generation.
- Designed a responsive Streamlit interface with dynamic filtering, metrics, and a technophilic theme.
- Implemented persistent state management and deduplication using a PostgreSQL datastore with optimized query flows.
- Added Gmail-side automation (mark-as-read + ID tracking) to ensure deterministic, idempotent processing runs.

Resume Critiquer | Python, Streamlit, OpenAI API, PyPDF2, uv pip interface

Nov 2025

- Architected an AI-driven resume-review web app that analyzes PDF/TXT resumes for targeted, role-specific feedback.
- Architected an interactive Streamlit UI with sidebar controls for feedback tone and focus areas (ATS, formatting, content, etc).
- Integrated GPT-4o-mini to assess clarity, skills emphasis, and impact, delivering actionable suggestions and rewrites.

HydraWatch | Flask, NextJS/ReactJS, Tailwind CSS, SQLAlchemy, SQLite, ML

Nov 2024

- Engineered a full-stack web app for EOG Resources at HackUTD 2024 to detect hydrate anomalies in gas pipelines in real time.
- Trained a 95% accurate regression model in Google Colab, and integrated it with Flask backend for real-time predictions.

Listernships | Flask, ReactJS, SQLite, SQLAlchemy, Chakra UI

Oct 2024

- Developed a full-stack web app with CRUD functionalities and a SQLite backend to manage and track internship applications.
- Implemented real-time status updates and responsive design to ensure accurate recordkeeping across all devices.
- Enhanced user experience with Chakra UI integration, including dark mode and accessible, customizable interfaces.