

Seeyan Newaz

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Education

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| The University of Texas at Dallas <i>Bachelor of Science in Computer Science</i> | Aug 2022 – May 2026 GPA: 3.91 |
| <ul style="list-style-type: none">▪ Relevant Coursework: Computer Architecture, Discrete Maths, Data Structures & Algorithms, Software Engineering, Programming Languages & Paradigms, Probability & Statistics, Database Systems, Linear Algebra, Computer Networks, Digital Logic▪ Organizations: Association for Computing Machinery at UTD (Member), Artificial Intelligence Society at UTD (Member), Bangladeshi Student Organization at UTD (Member)▪ Achievements: Academic Excellence Scholarship, Dean's List, Edexcel High Achievers' Award, The Daily Star Award | |

Technical Skills

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| Languages: Python, Java, C/C++, C#, JavaScript/TypeScript, SQL, Assembly, Dart, Lisp, Prolog, VHDL |
| Frameworks/Libraries: React.js, Next.js, Node.js, Angular, Spring Boot, .NET, Flask, Tailwind CSS, SQLAlchemy, Flutter |
| Developer Tools: Git, Docker, Kubernetes, Linux, Postman, JIRA, Hugging Face, OpenAI API |
| Cloud & Databases: AWS, Microsoft Azure, PostgreSQL, MySQL, Firebase, Oracle |

Experience

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| Peer Tutor for Calculus & Linear Algebra <i>Student Success Center – The University of Texas at Dallas</i> | Aug 2023 – Present Richardson, TX |
| <ul style="list-style-type: none">▪ Achieved 60% average grade improvement over 500+ undergraduates by delivering personalized 1:1 tutoring.▪ Enhanced concept mastery and confidence of students by tailoring explanations and practice to diverse learning styles.▪ Boosted exam readiness and achieved 100% student satisfaction by creating custom problem sets and step-by-step solutions. | |
| Software Developer Intern <i>Paycom</i> | May 2025 – Aug 2025 Irving, TX |
| <ul style="list-style-type: none">▪ Achieved \$1M+ potential savings by engineering a full-stack C#/.NET PDF data extraction pipeline for new client onboarding.▪ Cut manual setup by upto 5 days/client by building a React-based annotation tool and intelligent table-detection algorithms.▪ Reduced manual labeling/review time by 70% by developing custom NLP/NER models for structured entity extraction.▪ Facilitated automated relationship mapping among data by designing inference & auto-classification backend services.▪ Improved delivery reliability by managing CI/CD and version control in GitLab. | |
| Backend Software Developer <i>Association for Computing Machinery – The University of Texas at Dallas Chapter</i> | Feb 2024 – Apr 2024 Richardson, TX |
| <ul style="list-style-type: none">▪ Built an Android events app serving 30K+ students across 50+ university organizations by working in a Scrum-based 5-person team.▪ Delivered 90% accurate personalized event recommendations by integrating a GPT-4 Turbo chatbot into the user experience.▪ Enhanced data retrieval efficiency by 50% by designing a Firestore schema for real-time synchronization. | |

Projects

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| ReceiptBuddy <i>Docker, Spring Boot, Angular, PostgreSQL, OpenAI API</i> | Feb 2026 |
| <ul style="list-style-type: none">▪ Developed an AI-driven, full-stack web app using GPT-5.2 that enables users to upload receipt images and track expenditures.▪ Cut manual receipt processing by 50% through automated extraction and analysis of expenditure data.▪ Built a dynamic Angular frontend that displays all-time/monthly insights, real-time data visualization and spending trends.▪ Optimized user experience through Docker containerization, ensuring consistent performance across environments.▪ Streamlined database setup and management by utilizing PostgreSQL for scalable, persistent storage. | |
| InboxIntel <i>Python, Streamlit, PostgreSQL, Gmail API, OpenAI API</i> | Nov 2025 |
| <ul style="list-style-type: none">▪ Engineered an AI-powered, full-stack intelligent inbox assistant using GPT-5.1 to retrieve and process unread messages in real time.▪ Cut manual email processing time by 60% through automated summaries, prioritization, task extraction, and reply drafts.▪ Designed a responsive Streamlit interface by building dynamic filters and metrics.▪ Reduced duplicate processing by implementing PostgreSQL state management and deduplicated query flows. | |
| HydraWatch <i>Flask, Next.js/React.js, SQLite, SQLAlchemy, ML</i> | Nov 2024 |
| <ul style="list-style-type: none">▪ Built a full-stack web app for EOG Resources at HackUTD 2024 to detect hydrate anomalies in gas pipelines in real time.▪ Achieved 95% model accuracy by training a regression model in Google Colab and deploying it via Flask for live predictions. | |
| Listernships <i>Flask, React.js, SQLite, SQLAlchemy</i> | Oct 2024 |
| <ul style="list-style-type: none">▪ 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 a responsive Chakra UI design to ensure accurate record-keeping across all devices. | |