Khushi Gauli

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Education

University of Texas at Arlington Arlington, TX

B.S. in Computer Science, Cyber Security Certificate (GPA: 4.00 / 4.00) *Expected May 2026*

Relevant Coursework: Data Structures and Algorithms, Database, Operating System, Artificial Intelligence, Networks

Awards: Maverick Academic Scholarship (2022–2026), College of Engineering Dean's List (2023/2024)

Certifications: **Google Cybersecurity Professional Certificate** (2024), **Cornell University Certificate in Machine Learning Foundations** (2024)

Technical Skills

Languages: C, Java, Python, C++, SQL, HTML/CSS, PHP, JavaScript
Tools: GitHub, Visual Studio, Firebase, MySQL, Unix/Linux, Android Studio, Wireshark
Frameworks/Libraries: Pandas, NumPy, Matplotlib, Seaborn, Keras, TensorFlow, Node.js, React.js, Express.js, MongoDB

Projects

Book Review Sentiment Classifier | *Python, TensorFlow, Scikit-learn, TF-IDF* GitHub Repo

- Built a binary text classification model to predict sentiment from textual book reviews using a neural network.
- Preprocessed data using TF-IDF vectorization with Scikit-learn to convert raw text into numerical feature vectors.
- Constructed and trained a multi-layer feedforward neural network using TensorFlow with ReLU activations and sigmoid output.
- Optimized using Stochastic Gradient Descent (SGD) and binary crossentropy loss, achieving accuracy of 82.39%.

Tutoring Web Application | *MERN Stack* GitHub Repo

- Developed a responsive and user-friendly web application to manage student-tutor scheduling and attendance for a university tutoring center.
- Designed real-time tutor scheduling and session booking system, enabling admins to finalize availability and students to reserve slots with notifications sent via Nodemailer.
- Integrated Microsoft Single Sign-On (SSO) to enable secure, institution-based login for users via their existing university credentials.

Unix Shell | *C, Unix/Linux, Makefile* GitHub Repo

- Built a simplified Unix shell (`msh`) capable of executing commands in both interactive and batch modes.
- Implemented core shell features: process creation via `fork()`, execution with `execv()`, and built-in commands like `cd` and `exit`.
- Added output redirection functionality and robust error handling for command-line usage.

Experience

Learning Access Center (UTA) Sep 2022 – Present

Learning Specialist *Arlington, TX*

- Facilitated the development of individualized study plans for 20 students with learning disabilities, resulting in a 5% average grade improvement.
- Conducted one-on-one and group tutoring sessions to assist students in various computer science topics.
- Maintained accurate records and collaborated with faculty and staff to support student's academic progress.
- Maintained a focused, inclusive, and supportive learning environment for students.

Extracurricular Activities

- **Break Through Tech AI Fellow (2025):** Selected for a national cohort of 1,000 students in Break Through Tech AI, a Cornell Tech initiative providing hands-on experience in machine learning through real-world projects and industry mentorship.
- **HackUTA Organizer (2024):** Planning and coordinating mini-events, workshops, and judge recruitment for HackUTA 2024.