Ruhan Malik

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EDUCATION

The University of Texas at Dallas **Expected Graduation: May 2027**
Bachelor of Science, Computer Science *Richardson, TX*

- **Relevant Course Work:** *Software Engineering, Computer Architecture, Operating Systems, Adv C++, Data Structures & Algorithms, Adv Java, Unix Environment, Software Engineering, Paradigms, Scientific Computing using Python, Intro to Data Analysis.*

CERTIFICATIONS

Certificate of Data Science - UTD: Acquiring comprehensive technical skills in statistical modeling, machine learning algorithms, matrix operations, data visualization, Python programming for scientific computing, predictive analytics, and applied mathematical methods for solving complex data-driven problems

Amazon Web Services Practitioner Certificate: Demonstrated foundational knowledge of AWS cloud computing services, including core services, security, architecture, pricing, and support models across compute, storage, database, and networking domains

TECHNICAL SKILLS

Languages: Java, C++, JavaScript, HTML, CSS, Assembly, Python

Frameworks & Libraries: Pygame, Curses, React.js, Node.js, NumPy, Express, Flask, BeautifulSoup4

Tools: AWS, Jira, Postman, Adobe Creative Suite, Microsoft Office Suite, Unix Env., Git, Figma

Experience

Emergent Method **June 2025 - present**
Intern *Baton Rouge, LA*

- Performed comprehensive **SQL** database validation across multiple **testing environments** by writing complex **queries** to verify data integrity and accuracy before production deployment, ensuring database schema changes and data transformations were correctly reflected and preventing critical issues from reaching live systems.
- Collaborated on an enhancement team with UAT, SIT and DEV teams on a **Deloitte** project using **Agile** methodology, creating and updating **user stories** in **Jira** while participating in daily **sprint** meetings, backlog refinement sessions, and troubleshooting reported issues to ensure successful project delivery.

PROJECTS

Web Novel Reader | *React, Flask, BeautifulSoup4, Selenium, Koroko* **July 2025**

- Developed automated audiobook generation system using **Python web scraping** and **TTS** technology, extracting content from web pages with **BeautifulSoup**, implementing intelligent text preprocessing with **regex** patterns, and converting to high-quality audio with an **open source Kokoro TTS** pipeline with chunked processing and **FFmpeg** integration for seamless audio concatenation.
- Built **full stack React-Flask** application with responsive frontend and **REST API** backend for real-time audiobook processing, implementing **axios** HTTP client for asynchronous communication, dynamic audio polling with useEffect hooks for status updates, and CORS-enabled endpoints serving generated audio files with error handling and loading states across multiple routed components.

EPUB Audiobook Generator | *Python, Pytorch, Kokoro TTS, Ebooklib, BeautifulSoup4* **June 2025**

- Architected GPU-accelerated EPUB to audiobook conversion system with **PyTorch** deep learning models and **CUDA** optimization, achieving **2400%** performance improvement over CPU processing and **400+** chars/sec throughput for real-time text-to-speech conversion of large-scale text datasets
- Engineered end-to-end text processing pipeline using **BeautifulSoup** HTML parsing, **regex** NLP algorithms, and intelligent chunking (100K+ characters/chunk) integrated with **open-source Kokoro TTS** and **FFmpeg** multimedia framework for automated MP3 generation with 128k bitrate compression and batch processing capabilities

LEADERSHIP & EXTRACURRICULAR

Delta Epsilon Psi Fraternity Inc. — Beta Chapter Aug 2023 – Present
Vice President Internal, Secretary, Personal Relations Director Dallas, TX

- Collaborated with a cross-functional team to manage logistics for the largest South Asian fraternity—coordinated cultural and philanthropic events, raising over $5,000 for the Juvenile Diabetes Research Fund.