

Ruhan Malik

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EDUCATION

The University of Texas at Dallas

Expected Graduation: May 2027

Bachelor of Science in Computer Science, Certificate of Data 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

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

Portfolio | React, CSS, AWS S3, Cloudfront | [Ruhanweb.com](https://ruhanweb.com)

July 2025

- Designed a responsive portfolio application in **React**, featuring modern UI design, custom scroll animations with Lenis integration, creating a visual and professional showcase for myself and my projects.
- Deployed to **AWS cloud** infrastructure using **S3**, **CloudFront**, and **Route 53 DNS** management with automated HTTPS and edge caching, achieving page load time under 2 seconds globally while having a custom domain.

Web Novel Reader | React, CSS, Flask, BeautifulSoup4, Koroko TTS

July 2025

- Built **full-stack** web application converting novel chapters to audiobooks using **React** frontend and **Flask REST API**, enabling for user-friendly audiobook conversion.
- Integrated **open source Kokoro TTS** with **PyTorch** and **BeautifulSoup** for web scraping, delivering to fast and natural speech synthesis of each chapter.
- Implemented real-time audio processing pipeline with **FFmpeg** concatenation and modern UI design, enabling synthesis of full-length chapters into single audio files for seamless user experience.

EPUB Audiobook Generator | Python, Pytorch, Kokoro TTS, Ebooklib, BeautifulSoup4

June 2025

- Architected GPU-accelerated EPUB to audiobook system achieving **2400%** performance improvement over CPU processing, **reducing** conversion time from **4+** hours to **25** minutes for a **2.4M** character novel.
- Engineered intelligent chunking algorithms **optimized** for GPU **memory** constraints, enabling processing of full-length novels (**500+ pages**) while maintaining natural speech quality.
- Built automated MP3 generation pipeline with ebooklib parsing and FFmpeg framework, eliminating 4GB WAV file size limitations and enabling efficient audiobook distribution.

LEADERSHIP & EXTRACURRICULAR

UTD EPICS

Aug 2025 – Present

Full Stack Engineer

Dallas, TX

- Working in a collaborative team environment, partnering with engineering and computer science students to design and implement technical solutions for campus challenges.
- Technologies and specific outcomes to be updated as the project progresses