# Ruhan Malik

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## EDUCATION

**University of Texas at Dallas**                                                                              **Expected May 2027**
B.S Computer Science, Certificate of Data Science

- **Relevant Course Work**: Software Engineering, Operating Systems, Adv C++, Adv Data Structures & Algorithms, Unix Environment, Scientific Computing using Python, Intro to Data Analysis, Linear Algebra, Database System

## CERTIFICATIONS

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

## EXPERIENCE

**Full Stack Engineer**                                                                       **September 2025 – December 2025**
WalkWithMe

- Engineered data injection pipeline for donor analytics, automating data flow to **Power BI** dashboards for **50+** stakeholders and reducing operational costs by **$1400** annually.
- Architected **36-entity** normalized database schema from **20+** disparate CSV files using Prisma, establishing scalable data foundation for nonprofit CRM.
- Built **RESTful API** with full CRUD operations for **36** entities using Nuxt.js and Prisma, implementing error handling, input validation and proper HTTP status codes.

**Quality Assurance Intern**                                                                         **June 2025 – August 2025**
Emergent Method                                                                                                Baton Rouge, LA

- Validated data integrity across **100,000+** records using complex **SQL** queries in multiple testing environments, identifying **20+** discrepancies and ensuring accurate schema migrations before production deployment.
- 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 and resolving **100+** reported problems.

## PROJECTS

**EPUB Audiobook Generator** | Electron.js, Fast API, Pytorch, Kokoro TTS, Ebooklib          **June 2025 – November 2025**

- Architected GPU-accelerated EPUB to audiobook system achieving **2400%** performance improvement via **CUDA** optimization and PyTorch with memory-optimized chunking algorithms for **2.4M+** characters.
- Engineered **full-stack** desktop application implementing asynchronous task processing with UUID-based **progress tracking** and real-time **WebSocket**-style polling.
- Built automated **FFmpeg** audio **pipeline** with intelligent **chunking** for GPU **memory** constraints, reducing MP3 file sizes by **90%** and containerizing backend with **Docker** for deployment consistency.

**Web Novel Reader** | React.js, CSS, Flask, BeautifulSoup4, Kokoro TTS                                          **July 2025**

- Built **full-stack** web application that converts novel chapters to audiobooks, processing text files averaging **5,000+** words and generating streaming audio playback within **30** seconds of submission.
- Integrated **open source Kokoro TTS** delivering 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.

**Portfolio** | React.js, CSS, AWS s3, CloudFront | Ruhanweb.com                                             **August 2025**

- 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.

## SKILLS & Interests

**Programming languages:** Java, C++, JavaScript, HTML, CSS, Python, R, Typescript
**Frameworks/Libraries:** React.js, Nuxt.js, Prisma, Flask, NumPy, Pandas, BeautifulSoup4
**Databases:** SQL, SQLite
**Tools:** AWS, Jira, Postman, Unix Env., GitHub, Figma, RStudio, Kaggle, Excel, Docker, Supabase
**Interests:** Reading, Gaming, Pickleball