

# Ruhan Malik

aruhanmalik@gmail.com • (469)-305-6513 • [www.linkedin.com/in/ruhan-malik](https://www.linkedin.com/in/ruhan-malik) • <https://github.com/Ruhanmalik> • [Ruhanweb.com](https://Ruhanweb.com)

## 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.

Productivity Tracker | Next.js, Typescript, Tailwind CSS, Supabase

December 2025

- Developed **full-stack** calendar/productivity application using Next.js 14, TypeScript, and Supabase, implementing server-side actions and **REST API** patterns for **CRUD** operations on events and todos with PostgreSQL database.
- Designed normalized **PostgreSQL** database schema with **Row Level Security** policies for user data isolation, implementing relational database design with foreign key constraints and automated timestamp tracking.
- Implemented **authentication** system using Supabase Auth with **JWT** session management, implementing secure user flows including login, registration, email verification, and password reset with comprehensive error handling.

Portfolio | React.js, CSS, AWS s3, CloudFront | [Ruhanweb.com](https://Ruhanweb.com)

August 2025

- Deployed to **AWS** cloud infrastructure using **S3**, **CloudFront**, and **Route 53** DNS management with 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, Node.js

**Databases:** SQL, SQLite

**Tools:** AWS, Jira, Postman, Unix Env., GitHub, Figma, RStudio, Kaggle, Excel, Docker, Supabase

**Interests:** Reading, Gaming, Pickleball