

# Simaak Siddiqi

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## EDUCATION

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### The University of Texas at Austin

August 2021 - May 2025

Bachelor of Science in Applied Mathematics, Minor in Computer Science, Minor in Data Science

Austin, TX

- Relevant Coursework: Data Structures, Algorithms, Computer Networks, Computer Databases, Object Oriented Programming, Machine Learning Models, Computer Operating Systems

## WORK EXPERIENCE

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### Software Engineer Intern

September 2023 - January 2024

Trax Contents

San Antonio, TX

- Developed a full-stack app using React, Flask, and Selenium to process product data from 10,000+ listings.
- Designed a serverless NoSQL schema using AWS Lambda within DynamoDB, reducing data access time by 50%.
- Interfaced with public/private RESTful APIs to gather product data, improving retrieval by 20%.
- Implemented unit testing via Playwright, which identified and resolved critical bugs, reducing error rates by 15%.
- Managed version control with Git, optimizing workflow efficiency and reducing project delivery time.
- Attended Agile stand-ups in a cross-functional environment improving team collaboration and efficiency.

### AI Computer Science Analyst

March 2025 - June 2025

Mercor

Austin, TX

- Proofed AI-generated object oriented Java and Python code and validated mathematical reasoning, boosting model accuracy by 30%.
- Improved Meta's AI tutor reliability by identifying, categorizing, and resolving model output errors.
- Partnered with cross-functional teams to analyze behavior and refine technical requirements for AI fine-tuning.
- Researched emerging AI standards, ethics, and safety benchmarks to guide responsible product development.

### Research Assistant - Database Administrator

September 2022 - January 2023

McCombs School of Business

Austin, TX

- Assisted a team of senior researchers in data entry, cleaning, and design of PostgreSQL relational databases.
- Designed complex SQL queries for data transformation and reporting in the field of white collar prosecution.
- Implemented database optimization strategies and improving ETL workflows, resulting in increased data accuracy.

## PERSONAL PROJECTS & COMMUNITY INVOLVEMENT

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### Full-stack Software Engineer

June 2025 - Present

Crown Chess

- Developed a responsive chess UI using React.js, TypeScript, and HTML/CSS supporting 100+ users worldwide.
- Implemented a RESTful API using Node.js and Express.js to handle game, ranking, and player updates.
- Designed efficient MongoDB schemas using Mongoose, optimizing data integrity across the entire application.
- Configured a CI/CD pipeline with Github Actions to deploy on AWS EC2, fully automating deployment and ensuring 99.9% uptime.
- Containerized the full application with Docker to enable faster scaling and lower resource consumption.

### Software Engineer Trainee

August 2021 - May 2022

Longhorn Gaming

- Developed a Discord bot using JavaScript/TypeScript and Discord.js, enhancing user engagement with LG.
- Built an electron application using Next.js and Tailwind CSS leading to increased membership turnout and interaction.
- Implemented CI/CD pipelines using GitHub Actions improving development efficiency.
- Utilized Git and GitHub for version control to maintain code integrity across the development team.