

# Zayn Ullah

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## EDUCATION

### Georgia Institute of Technology

*Bachelor of Science in Computer Science, Concentration in AI*

Exp. Graduation: Dec. 2026

*Atlanta, GA*

## EXPERIENCE

### Co-Founder & Software Developer

Jan. 2025 – Present

*SylCampus*

*Alpharetta, GA*

- Launched a SaaS platform that transformed 2,000+ messy syllabi into organized dashboards, adopted by 500+ paying users at 100+ universities, reducing organizational time for users by 90%.
- Engineered a scalable backend (Python/Django, SQLite) and responsive frontend (TypeScript, HTML/CSS, JavaScript), delivering 99.9% uptime and supporting 5,000+ scheduled assignments and exams.
- Deployed Meta Pixel and Conversions API with AWS to capture 10,000+ real-time events per week, producing insights that improved ad conversion rates by 18%.
- Scaled product adoption while winning the University of Georgia's Idea Accelerator Competition and completing Georgia Tech CREATE-X's Startup Launch Program, resulting in market validation and institutional recognition.

### AI Research Assistant

Jan. 2025 – May 2025

*Fung Group at Georgia Tech CSE*

*Atlanta, GA*

- Built a pipeline for conditionally generating crystal structures with LLMs, producing 100+ valid structures with targeted band gaps (1.1–1.9 eV), accelerating discovery of semiconducting materials by 3×.
- Fine-tuned LLaMA-2 with LoRA, reducing training costs by 40% and enabling scalable experimentation on 50,000+ CIF-formatted crystal samples.
- Evaluated generated structures using MAE, reducing property prediction error by 22% and improving accuracy across both band gap and formation energy.
- Implemented oversampling and dual-property generation, boosting dual-alignment accuracy by 35% and improving reliability of multi-property predictions.

## PROJECTS

### AI-Powered Checkout Optimization System | *Python, OpenCV, NumPy*

- Developed a face and item recognition algorithm that reduced cafeteria checkout time by 30% during trials.

### Resume Analyzer | *Python, HTML/CSS, Mistral*

- Built an AI-driven resume analyzer using Mistral-7B-Instruct, scoring resumes on 5+ sections and generating 3–5 targeted recommendations per upload, helping users improve scores by an average of 30%.
- Integrated drag-and-drop uploads (PDF/DOCX/TXT) and API fallback handling, allowing for the system to process 200+ resumes with no downtime.

### Smart Habit Tracker | *Python, Flask, SQLite, HTML/CSS, Alpine.js*

- Designed and developed web app that enabled users to build and maintain habits through streak tracking, automated reminders, and interactive data visualizations, leading to improvements in long-term habit adherence.
- Implemented secure user authentication and a robust SQLite-based backend for habit creation, management, and daily progress logging, ensuring persistent data storage and a reliable user experience across multiple sessions.

### Spotify Data Analysis | *Java, Spotify API*

- Created a mobile application in Android Studio that integrated with the Spotify API to analyze user listening data, automatically generating a comprehensive summary of top songs, artists, genres, and listening trends over time, providing users with personalized insights into their music habits.

## SKILLS & INTERESTS

**Languages:** Python, JavaScript, TypeScript, Java, C/C++, Assembly, SQL, HTML/CSS

**Frameworks:** Django, Flask, React, Alpine.js, Node.js, JUnit

**Developer Tools:** Git, Docker, AWS, Conda, PyCharm, IntelliJ, VS Code, Android Studio

**Libraries/ML:** NumPy, Matplotlib, OpenCV, scikit-learn, PyTorch, Hugging Face Transformers, Mistral, LLaMA

**Interests:** Atlanta Sports Teams (unfortunately), Hiking, Entrepreneurship