Zayn Ullah

(404) 483-6807 | zullah1@gatech.edu | linkedin.com/in/zaynullah | github.com/zayn7705

EDUCATION

Georgia Institute of Technology   Atlanta, GA
Bachelor of Science in Computer Science, Concentration in AI   *Expected Graduation: Dec. 2026*

EXPERIENCE

Co-Founder & Software Developer   Jan. 2025 – Present
SylCampus   *Alpharetta, GA*
- Developed a full-stack SaaS platform that transforms messy syllabi into clean, automated academic calendars, syncing assignments and exams directly to Google Calendar
- Designed and implemented a scalable backend (Python/Django, SQLite) and responsive frontend (TypeScript, HTML/CSS, JavaScript)
- Built a lightweight CRM-style analytics pipeline by integrating Meta Pixel and Meta Conversions API with AWS, enabling real-time event tracking, conversion attribution, and growth insights
- Scaled to 500+ paying users at 100+ universities while participating in Georgia Tech CREATE-X's rigorous Startup Launch Batch 12

AI Research Assistant   Jan. 2025 – May 2025
Fung Group at Georgia Tech CSE   *Atlanta, GA*
- Designed and implemented a pipeline for conditionally generating crystal structures using LLMs, targeting specific material properties (band gap and formation energy)
- Fine-tuned a LLaMA-2 model using LoRA for efficient training on CIF-formatted crystal data
- Developed Python scripts to generate 100+ structures conditioned on band gaps between 1.1–1.9 eV; evaluated model accuracy using MAE and other metrics
- Collaborated with teammates to implement oversampling strategies and dual-property generation (band gap + formation energy), improving model performance

PROJECTS

Smart Habit Tracker | *Python, Flask, SQLite, HTML/CSS, Alpine.js*   June 2025
- Developed a web app enabling users to build and track habits using streaks, reminders, and data visualization, with a clean UI and habit-formation focus
- Implemented user authentication, habit creation/management, and daily progress tracking with SQLite backend

Resume Analyzer | *Python, HTML/CSS, Mistral*   Apr. 2025 – May 2025
- Developed a responsive web app using Mistral-7B-Instruct to deliver AI-driven resume analysis and feedback
- Built drag-and-drop upload support for PDF, DOCX, and TXT with section-level scoring (1–10) and actionable recommendations
- Implemented a local fallback system and error handling to ensure reliability during API downtime

Personal Portfolio Website | *HTML, Tailwind CSS, JavaScript, Font Awesome*   May 2025 – Present
- Built a modern, responsive portfolio showcasing my projects, skills, and experiences
- Designed a clean, interactive UI with smooth animations, terminal-style interactions, and fully responsive layout
- Integrated Formspree contact form, SEO optimization, and ensured cross-browser compatibility

AI-Powered Checkout Optimization System | *Python, OpenCV, NumPy*   Jan. 2023 – May 2023
- Developed an algorithm with a team that recognizes faces and items selected for purchase, streamlining the payment process
- Reduced checkout time by 30% during trials in our school cafeteria

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), Adventure, Entrepreneurship