Yashkaran Chauhan

571-395-0686 | ychauhan9@gatech.edu | linkedin.com/in/yashc1/ | github.com/YashC6789 | U.S Citizen

Education

Georgia Institute of Technology December 2026
Master of Science in Computer Science *Atlanta, GA*
Concentration: *Artificial Intelligence*

Georgia Institute of Technology December 2025
Bachelor of Science in Computer Science *Atlanta, GA*
Honors: *Faculty Honors* *GPA: 3.95*
Relevant Coursework: *Data Structures & Algorithms, Machine Learning, InfoSec, Databases*

Technical Skills

Languages: Java, Python, C++, MySQL, Javascript, MATLAB, HTML/CSS
Frameworks: React, Angular, Typescript, Node.js, Express.js, SpringBoot, Docker, Jenkins
Libraries: pandas, NumPy, Matplotlib, Sklearn, Sci-py, Transformers, Diffusers, OpenCV, Keras, Tensorflow
Interests: Reading, Creative Writing, Digital Art, Basketball, Soccer, Piano, Public Speaking, Chess

Experience

Product Engineering Intern May 2025 - August 2025
VeriSign *Reston, VA*
- Architected and implemented a Spring Boot RESTful API to automate domain name data retrieval, enabling engineering teams to fine-tune DNS ML systems and generate performance analysis reports for latency checks.
- Integrated Spring Security with a custom login filter and token-based authentication, combined with server-side caching and dynamic rate-limiting to accelerate data transfer from multi-hour manual process to sub-5 second automated responses.

Software Researcher & Developer January 2024 – May 2025
Georgia Tech VIP Program - Apache Airavata *Atlanta, GA*
- Built a full-stack web application with gRPC backend API to enable optimized remote access and job monitoring for a large-scale DeepSeek model on high-performance computing clusters, reducing user wait times from 5 hours to 2 minutes.
- Led a five-person team to develop full-stack web applications with an optimized secure JWT-based API backend, contributing to the Apache Airavata Open Source project to stregthen platform security and provide reference implementations.

Software Developer December 2022 - July 2023
Project Beetle *Atlanta, GA*
- Delivered a full-stack social event-planning MVP using React.js and Node.js by leading a team of 3 developers to build event creation, RSVP management, and real-time notifications within 2 months.
- Constructed camera functionality for an interactive user feed, improving image processing speed to 15+ images/min, and built RESTful APIs enabling seamless event creation for 100 beta users.

Leadership & Community Engagement

Co-Founder & Instructor June 2019 – June 2023
Junior Java *Brambleton, VA*
- Educated 150 students over the summer—achieving 80% retention and 75+ students continuing into CS—by designing a 3-level Python/Java curriculum (JavaFX, PyTorch) with 30+ tailored lessons on data types, OOP, and advanced concepts.

Projects

Fine-tuning on Adversarial Images | *Python, PyTorch* March 2025 – May 2025
- Designed a reproducible benchmarking system to evaluate an AI image recognition model against tampered or misleading inputs, strengthening the model's reliability in real-world conditions.
- Accomplished adversarial fine-tuning of ResNet50 to recover accuracy on perturbed images by 25% through a GPU-accelerated adversarial-robustness pipeline in Python/PyTorch—streaming ImageNet-1k, performing 20-step PGD attacks on 5K+ samples.

Detecting Flaws in Golf Swings | *Python, PyTorch, OpenCV* August 2023 – December 2024
- Developed a computer-vision pipeline using OpenCV and MediaPipe for pose estimation and swing segmentation, providing automated real-time performance insights to golfers.