

# Aditya Jain

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## EDUCATION

### Georgia Institute of Technology

May 2027

Atlanta, GA

*Bachelor of Science in Computer Science, Minor in Mathematics*

Concentrations: Artificial Intelligence, Systems and Architecture

- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Computer Organization and Programming, Discrete Math, Linear Algebra, Probability and Statistics, Introduction to AI, Perception and Robotics
- **Involvements:** Startup Exchange Executive Board, Big Data Big Impact Project Lead, GT-Europe Study Abroad Program

## WORK EXPERIENCE

### Intercontinental Exchange (ICE)

June 2025 – August 2025

New York, NY

*Data Engineer Intern*

- Engineered a fixed income analytics dataset by consolidating 500M+ trades from fragmented sources using Python and SQL
- Designed data transformation pipelines to normalize trade pars, pricing, and liquidity metrics for downstream analytics
- Built interactive Streamlit applications to visualize bid-ask spreads, adjusted lot sizes, and market liquidity trends over time
- Presented insights to the President of Fixed Income & Data Services, directly influencing data product direction and tooling

### Dirac Inc.

September 2024 – December 2024

Atlanta, GA

*Software Engineer (Sponsored Project with Product at GT)*

- Built a 3D simulation to model non-rigid wire installation and removal across dozens of constrained electrical environments
- Implemented A\* and PPO-based reinforcement learning to avoid wire collisions and generate ideal paths with 98% accuracy
- Used the Blender API in Python to render and animate wire trajectories, creating an end-to-end assembly installation process

### Bestica Inc.

June 2023 – September 2023

Remote

*Machine Learning Engineer (OttoGrade)*

- Developed and sold an AI platform to expedite homework grading hours for math instructors in the U.S. Air Force Academy
- Created a proprietary contour recognition algorithm using OpenCV to extract data from unstructured handwritten inputs
- Built a RESTful API with Flask, Mathpix OCR, and a fine-tuned LLM to process and evaluate outputs with 99% accuracy

## PROJECTS

### SlideIn: AI Cold Outreach Assistant

- Deployed a full-stack Next.js app that automates research-to-email workflows with over 1K+ users and 500K+ impressions
- Integrated Gmail and Outlook APIs for secure user authentication and one-click email sending from connected accounts
- Used Cheerio API to scrape contact information and contextual metadata from websites, improving outreach reply rate by 3x

### PerfectPunch Boxing Trainer

- Developed a real-time computer vision system to evaluate punching form, speed, and accuracy using PyTorch and MediaPipe
- Built a low latency Django web app that captured live video input via webcam and processed motion with OpenCV
- Integrated an interactive dashboard that visualized multi-session performance metrics for personalized user insights

### SurgeVue: AR-Based Surgical Assistant

- Used Flask, OpenCV, and PyTorch to create an application for real-time brain tumor segmentation on MRI scan samples
- Implemented an AR overlay to control on-screen MRI imaging and medical data with hand gestures within live camera feeds
- Created a Swift iOS app that interfaced with an Arduino IMU via Google Firebase, sampling finger stability at 100+ hz

## LEADERSHIP

### Startup Exchange at Georgia Tech, Sponsorship Team Lead

- Sponsorship Lead for AI ATL 2025, the largest AI hackathon in the South with over 500+ participants and \$100K in prizes
- Organized outreach calls with company executives and secured funding from Google, Anthropic, Microsoft, and more
- Led generative AI workshops and taught students about product development with Claude Code for the Anthropic track

## TECHNICAL SKILLS

**Languages:** Python, Java, Kotlin, JavaScript, TypeScript, C, C++, C#, Swift

**Libraries and Frameworks:** Node.js, React.js, Angular, Flask, Django, OpenCV, PyTorch, TensorFlow, Pandas, Streamlit

**Databases and Tools:** SQL, Apache Spark, MongoDB, Supabase, Firebase, AWS, Azure, Docker, Git