Ayan Goel

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EDUCATION

Georgia Institute of Technology — Atlanta, GA
Bachelors of Science in Computer Science — *GPA: 4.00 | Expected Graduation: May 2027*
- **Concentration:** Artifical Intelligence and Information Internetworks
- **Minor:** Computing + Business through the Denning Technology and Management Program
- **Coursework:** Data Structures and Algorithms, Objects and Design, Discrete Math For CS, Linear Algebra
- **Scholarships:** Zell Miller Scholarship (full tuition), National Merit Scholarship

EXPERIENCE

Microsoft — Atlanta, GA
Product Management Intern — *February 2025 – Present*
- Building multi-agent Copilot system reducing incident resolution time by 75%, saving $480K across 1,200+ cases
- Designing asynchronous agent workflow pipeline with 99% reliability, decreasing intervention requirement by 78%
- Optimizing ML-based agent interaction by A/B testing of 35+ scenarios, improving automation accuracy by 67%

United States Soccer Federation — Atlanta, GA
Technology Consultant — *December 2024 – Present*
- Producing an event dashboard for 20+ U.S. Soccer executives, optimizing match scheduling for 2 national teams
- Integrating 500K+ rows of ticket sales, venue market data, and match history, promoting data-driven planning
- Designing database of 150+ stadiums to filter venues by capacity, location, amenities for strategic match selection

Medford Research Group — Atlanta, GA
Research Intern — *December 2024 – Present*
- Automate SPARC-based Density Functional Theory workflows with Python scripts, reducing setup effort by ∼20%
- Simulate molecular structures using HPC-based DFT with Atomic Simulation Envs to process 1,000+ interactions
- Honed PyTorch NNs with Bayesian optimization for 92% energy prediction accuracy, cutting compute time by 14%

LifeCycle Building Center — Atlanta, GA
Data Science Intern — *June 2023 – August 2023*
- Engineered data-driven inventory optimization system boosting annual profits by $175K & reducing waste by 31%
- Developed automated ETL pipeline processing 120+ heterogeneous datasets, increasing analytical efficiency by 65%
- Executed SQL-based transaction analysis across 2.3M+ records, uncovering 5 key market segments driving revenue

PROJECTS

Monty.ai | *React.js, FastAPI, Polygon API, yFinance, Gemini API* — *February 2025 – Present*
- Automated the development of trading strategies by backtesting on historical data and Monte Carlo simulations
- Integrated FastAPI with stock/indicator data & Gemini LLM to evaluate strategy metrics & return improvements

Trading Platform | *React.js, Node.js, Express.js, REST APIs, Socket.io* — *October 2024 – February 2024*
- Created trading platform for Trading @ GT, facilitating national mock trading competitions for 400+ participants
- Utilized Node.js for WebSocket communication and REST API for 2500+ trading operations with matching engine

SpeakEasy | *Next.js, OpenCV, TensorFlow, NVIDIA NIM, Flask, MongoDB* — *October 2024 – February 2024*
- Built app that helps users improve their interview skills through custom questions/feedback from NVIDIA NIM
- Integrated OpenCV/Tensorflow pipeline with Flask to process video, stored data in MongoDB for progress tracking

MediSense AI | *NumPy, Pandas, Scikit-Learn, Streamlit, Google BERT* — *September 2024 – December 2024*
- Tuned Google BERT LLM predicting prognoses with 91% accuracy across 150+ trials with 50,000+ medical reports
- Trained Logistic Regression & Random Forest models assessing risk factors with 83% accuracy on 560,000+ rows

SKILLS/INTERESTS

Languages: Java, Python, C/C++, SQL/MySQL, JavaScript, TypeScript, HTML/CSS, Rust, MATLAB, Assembly
Frameworks: Node.js, React.js, React Native, Angular, Next.js, D3.js, Express.js, Flask, FastAPI, Django, Bootstrap
Software: Selenium, Scikit-learn, PyTorch, TensorFlow, MongoDB, Firebase, AWS, Socket.io, Docker, Kubernetes
Affiliations: Trading @ GT, Product @ GT, Undergraduate Consulting Club, Alpha Kappa Psi Business Fraternity
Awards: Valedictorian Award, National Merit Scholar, Eagle Scout Award, FIRST Tech Challenge Dean's List Finalist
Interests: Soccer, Weightlifting, Asian Cuisine, Cooking, International Travel, R&B Music, Gaming, Caring for Animals