Achintya Chaganti

H-1B1 Visa Guaranteed (Singapore Citizen)

(517) 528-3322 | chaganti.ac@northeastern.edu | https://www.linkedin.com/in/achintyachaganti01

EDUCATION

Northeastern University	**Boston, Massachusetts**
Bachelor of Science in Physics	Expected: Dec 2027
Michigan State University	**East Lansing, Michigan**
Bachelor of Science in Physics and Economics	August 2023 - May 2025

- **GPA:** 3.56/ 4.0, Dean's List (top 20% of Physics and Economics undergraduates)
- **Relevant Coursework:** Security Analysis, Actuarial Mathematics, Classical Mechanics

WORK & LEADERSHIP EXPERIENCE

Aramaki Lab	**Boston, Massachusetts**
Undergraduate researcher	September 2025 - Present

- Operated a Geant4/ROOT simulation of the GRAMS LArTPC with plastic-scintillator TOF, compiling with CMake and running macro-driven batches to deliver reproducible detector studies.
- Used Geant4's General Particle Source to scan energy and incidence angles, quantifying the impact on geometrical acceptance and TOF performance.
- Executed antimatter stop-event studies and validated topologies in HepRApp, catching geometry issues before long runs and conserving compute.
- Ran sensitivity analyses to rank the parameters that most influence acceptance and timing, guiding follow-up simulations.

Michigan State University Student Investment Fund	**East Lansing, Michigan**
Equity Analyst	January 2025 - May 2025

- Co-manage a $5 million mid cap fund benchmarked against the S&P 400 with direct responsibility for select holdings in the financial sector.
- Analyzed financial statements, assessing business prospects including revenue drivers and competitive positioning, and developing discounted cash flow valuation models to determine intrinsic value.
- Performed financial statement analysis and key ratio assessments (ROE, EBITDA margins, P/E, P/B) to determine the valuation and financial health of companies across sectors.

Singapore Civil Defence Force	**Singapore**
Firefighter, Emergency Medical Technician, Support Specialist	April 2021 - February 2023

- Led emergency response teams in handling 60+ critical incidents, improving response times by 15% through strategic task allocation and equipment deployment.
- Completed comprehensive Basic Rescue Training (BRT), specializing in hazard equipment operations disaster response and safety protocols, ensuring readiness for emergency scenarios.
- Developed and executed safety protocols, reducing on-site injuries by 20% and improving overall efficiency in rescue operations and COVID -19.

SKILLS, ACTIVITIES & INTERESTS

Languages: Fluent in English, Hindi and Telugu | Spanish and Chinese (Basic)

Technical Skills: Python, C, C++, Financial Modelling and Valuation, DCF, LBO, Stochastic Models

Certifications & Training: AWS Solutions Architect Associate, AWS Partner (Technical, Business, Cloud Economics), Ambulance and First Aid Certified,

Activities: Associate Students of Michigan State University, Sophomore Class Council, General Assembly, Student Life & Engagement Council, MSUIISA (Event Coordinator)

Interests: Chess, Placed 4th in National team event for Judo nationals, Public speaking & Debate