

# MANAV RAMPRASAD

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## EDUCATION

### GEORGIA INSTITUTE OF TECHNOLOGY - ATLANTA, GA

JUN 2020 - MAY 2024

- Candidate for B.S. in Computer Science - Intelligence & Modeling/Simulation  
◦ Minor in Materials Science & Engineering
- Scholarships: Zell Miller Scholarship, M. Weldon Rogers Scholarship

3.8/4.0

RELEVANT COURSEWORK: Deep Learning, NLP, Machine Learning, Computer Simulation, Intro to AI, Computer Systems & Networks, Differential Equations, Circuits & Electronics, Statistics, Electrical Properties of Materials

## EXPERIENCE

### CHAO ZHANG RESEARCH GROUP - ATLANTA, GA

JUN 2022 - PRESENT

- Improving In-Context learning and multi-step reasoning for healthcare texts by training over MIMIC-III notes
- Created PostgreSQL databases to analyze the MIMIC-III dataset, containing over 50,000 distinct hospital visits
- Preprocessed data in the database to recreate existing Machine Learning models' results to track improvement

### US BANK SOFTWARE DEVELOPMENT INTERN - ATLANTA, GA

AUG 2022 - DEC 2022

- Used App Dynamics to aid multiple money movement teams in finding and fixing recurring issues on the full stack
- Improved upon the front end design of the wire transfer interface to initiate more frequent successful transactions
- Conducted data analysis on requests to improve the efficiency of a variety of pull requests and DOM builds

### POLYMER GENOME RESEARCH INTERN - ATLANTA, GA

JUN 2018 - DEC 2020

- Improved the Gaussian Process Regression model by 30% for the prediction of a variety of polymer properties
- Scraped property data for over 6,000 homopolymers, copolymers and polymer blends by writing a Python script
- Identified deficiencies of the GPR-based Machine Learning model by curating and analyzing data of interest

## LEADERSHIP

### GEORGIA TECH UNDERGRADUATE RESEARCH AMBASSADOR - ATLANTA, GA

AUG 2023 - PRESENT

- Engages with undergraduate students through presentations and workshops to encourage involvement in research
- Hosts office hours for prospective students to discuss research interests and find suitable opportunities on campus

### GEORGIA TECH ATHLETIC ASSOCIATION TUTOR - ATLANTA, GA

AUG 2021 - MAY 2023

- Taught 7 student athletes in Math, Physics, and History every week in order to help keep their NCAA eligibility
- Aided with course improvement by helping students set goals and by submitting session reports after each lesson

## PUBLICATIONS/PRESENTATIONS

- Xu, Xu, Ramprasad, Tumanov, Zhang "TransEHR: Self-Supervised Transformer for Clinical Time Series Data", Machine Learning for Health
- Tran et al "Machine-learning predictions of polymer properties with Polymer Genome", Journal of Applied Physics
- Ramprasad, Kim "Assessing and Improving Machine Learning Model Predictions of Polymer Glass Transition Temperatures", Journal of Emerging Investigators

## SKILLS

SOFTWARE:	Python, Java, SQL, C, C++, R, MATLAB, Assembly, G-Code (CNC), AutoCAD, Microsoft Suite
ACADEMICS:	Competition Math (AIME qualifier, NEML winner), CS (CS Olympiad), Physics (Physics Olympiad)
COMMUNICATION:	Public Speaking & Presentations (WE Day Madison Square Garden), Research Paper Writing
INTERESTS:	Piano (Royal Conservatory of Music Level 8, Jazz Band), Basketball, Football, Ultimate Frisbee
EXTRACURRICULARS:	AKPsi Fraternity, GT Chess Team (9th Grade Connecticut State Champion - USCF Rating: 1879)