

Teja Koduru

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U.S. CITIZEN

EDUCATION

University of Michigan – Ann Arbor, College of Engineering

Bachelor of Science in Aerospace Engineering, Minor in Computer Science

GPA: 4.00, SAT: 1600, ACT: 36

Ann Arbor, MI

Expected April 2026

WORK EXPERIENCE

MITRE Corporation

August 2021 - Present

Emerging Technologies Software Engineer

Mclean, VA

- Designed real-time path-planning algorithms for custom-built micro-UAVs in dense environments, configured MITRE's MASE lab with Loco Positioning System allowing for indoor flights of micro-UAVs, collected flight telemetry data used extensively in other MITRE UAV projects
- Designed 3 different AI models to identify disinformation campaigns on social media, tested 5 prototypes, and integrated software into MITRE's playbook for disinformation response
- Developed VR simulation of shoot-houses to help special operators train for missions, worked together with Navy SEALs representatives, presented to 50+ stakeholders including VP of MITRE.

National Institutes of Health

November 2019 – December 2020

Research Intern – Lyme Studies Unit

Bethesda, MD

- Created world's first publicly available dataset of erythema migrans (EM) rash images, critical to diagnosing Lyme disease. Dataset has already been downloaded 500+ times worldwide since its publication
- Produced a phone application with TensorFlow Lite to recognize EM rashes and by extension Lyme disease, final product had above 90% accuracy in the field compared to roughly 40% accuracy of doctors
- Led testing of model, by screening patients and building an improved patient UI

RESEARCH

Albert Einstein College of Medicine

December 2021– January 2023

COVID-19 Researcher

NYC, NY

- Conducted 4 retrospective COVID-19 epidemiology studies leveraging Python and SQLite.
- Wrote a review paper summarizing 100+ previous research articles to examine relationship between COVID-19 and cancer as well as outline avenues for future research.
- Published work in "Reviews in Cardiovascular Medicine (RCM)" journal: doi.org/10.31083/j.rcm2312389

George Mason University / U.S Army

August 2022 – May 2023

Lead Researcher

Alexandria, VA

- Led a team of 5 researchers to develop software for GMU's iFlood tool
- Implemented an LSTM model using data from sensors across the National Capital Region to predict flooding in the Chesapeake Bay; final model had an 80% accuracy and was hosted on the iFlood website: iflood.vse.gmu.edu/

SKILLS / ON CAMPUS

Software

- Python, C++, Java, C#, Linux
- SOLIDWORKS, Fusion 360, CATIA
- MATLAB/Octave

Hardware

- General manufacturing

On Campus Involvement / Awards

- **U.S Presidential Scholar Class of 2023** – 1/100 students nationwide
- **International Lyme Disease Association** - 5k Grant Recipient
- **Claes Nobel Academic Excellence Scholars 2023** – 20k Scholarship
- **U.S Patent 63/325,350 for Lymelyte**
- **Project Sirius** – Scratch-built and programmed a custom FPV drone
- **UMich MFly Team** – Software Developer, Autonomous Plane Team
- **Georgia Tech Undergraduate Research Ambassadors**