

Michael Wang

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Education

Georgia Institute of Technology , Atlanta, GA	2024–Present
Dual Enrollment · Coursework: Linear Algebra, Multivariable Calculus, CS 1301	
North Gwinnett High School , Suwanee, GA	2023–2027
SAT: 1510 (790 Math, 720 Reading and Writing)	

Professional & Technical Experience

Software Engineer — U.S. Department of Defense	Aug 2026–Present
<i>Chief Digital and Artificial Intelligence Office (CDAO) · U.S. Tech Force</i>	
• Selected through U.S. Tech Force to support Maven Smart System initiatives.	
AI Engineer — U.S. Department of the Treasury	June 2026–Aug 2026
<i>Treasury Common Services Center, Office of the Deputy Administrator for Technology Services</i>	
• Interviewed internal clients to document contracted-software workflows, translated requirements into technical specifications, and developed internal replacements.	
• Built a department-wide email service for press releases and public communications intended to replace an external software contractor.	
Founder and Software Engineer — Esto	July 2025–Present
• Built an AI-driven property-management workflow platform using Python, Next.js, FastAPI, SQL, and Gemini API .	
• Secured a pilot agreement with property managers overseeing approximately \$60M in property assets .	
• Selected for Georgia Tech CREATE-X ; backed by an independent angel investor at Salesforce.	

Research Experience

Student Researcher — AI Bias Lab, Emory University	Jan 2025–Present
<i>Prof. Kai Shu</i>	
• Designed a multi-agent inference-time debiasing framework for multimodal large language models.	
• Reduced measured bias by up to 40% , sustaining approximately 30% reductions with less than 7% accuracy degradation ; conducted ablation and robustness testing.	
Research Assistant — Emory University School of Medicine	Dec 2024–Aug 2025
<i>Prof. Peijian He</i>	
• Investigated mitochondrial ROS and metabolic alterations affecting cellular sensitivity to ferroptosis .	
• Conducted RNA extraction, Western blotting, qPCR, cell culture, and ROS assays; contributed to a bioRxiv preprint indexed in PubMed .	

Selected Project

Northern Virginia Data-Center Permitting Platform	May 2026–Present
• Selected for the Palantir Valley Forge Grant to build a government-reviewer platform using Palantir Foundry and AIP .	
• Built Python pipelines and an ontology integrating federal regulations, wetlands, and critical-habitat data to identify approval pathways and flag incomplete evidence.	

Publications & Recognition

- Wang, M., et al. (2025). *Mitochondrial ROS-Induced Metabolic Alterations Differentially Regulate Ferroptosis Sensitivity*. bioRxiv preprint indexed in **PubMed**.
- Wang, M. (2025). *Assessing the Predictive Accuracy of Economic Indicators on Real Estate Development in Georgia*. SSRN working paper.

Technical Skills

Languages & Frameworks: Python, TypeScript, SQL, PyTorch, TensorFlow, FastAPI, Next.js, PostgreSQL

Platforms & Tools: Palantir Foundry, Palantir AIP, Hugging Face, Git