

Ethan White

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EDUCATION

Tennessee Technological University	May 2026
<i>B.Sc. in Physics, B.Sc. in Mathematics — cum laude, in cursu honorum</i>	GPA: 3.6/4.0
Georgia Institute of Technology	Anticipated December 2028
<i>M.Sc. in Computer Science — Machine Learning Specialization</i>	GPA: 4.0/4.0

PROFESSIONAL EXPERIENCE

Forward Deployed Engineer @ Year Up United — CodePath	October 2026 — October 2027
• Claude Corps Fellow at YearUp United, building AI tools and systems for mission-driven work. Claude Corps is a collaboration between Anthropic, CodePath, and Social Finance. • Deployed AI into workflows and processes, saving an estimated 10 hours per week.	
Research Intern — University of Utah	May 2025 — August 2025
• Built an end-to-end Python data pipeline that cleaned, integrated, and processed large multi-source telescope datasets applying time-matching corrections, calibration logic, and statistical modeling to recover signal • Presented multivariable analysis to 50+ technical stakeholders at an international research meeting in Tokyo, translating complex statistical findings	
Research Intern — Tennessee Technological University	May 2024 — August 2024
• Automated a multi-month manual data entry process, consolidating 50M+ parameters into a 12-hour computational (C++) pipeline, reducing human processing time by an estimated 95%+ • Reconstructed a complete dataset model by diagnosing data-quality issues, building correction curves, and analyzing correlation matrices to validate findings	
Research Intern — Academia Sinica, Institute of Physics	May 2023 — July 2023
• Conducted independent statistical analysis on large experimental datasets (C++), benchmarking results against established models to establish data-driven conclusions regarding theoretical physics concepts • Delivered findings at 2 national conferences, communicating complex analysis to 100+ technical stakeholders	

PROJECTS

TVA Investment Challenge Portfolio Dashboard — Python, JavaScript, HTML/CSS
• Built end-to-end portfolio analysis tool being used by 27 universities, each managing a \$500K+ portfolio • Features include: time-series analysis, correlation matrix analysis, mean-variance optimization, sector compliance
Flight Delay Root-Cause Analysis Dashboard — Python, Pandas, SQL, Tableau
• Analyzed 7M+ BTS flight records using Python and SQL to quantify that late-aircraft propagation drives 36% of total delay costs, with ORD running 15% above the national delay baseline • Built a Tableau operational dashboard with DAX-computed KPIs and cross-filtering across carrier, route, time-of-day, and delay cause

SKILLS

Data & Analytics: SQL • Excel • Tableau • PowerBI • Python (Numpy, Pandas) • Statistical Analysis • A/B Testing
Technical: C++ • Git • Data Visualization • Dashboard Development • Prompt Engineering

ADDITIONAL

Leadership: Founded environmental org to clean **2,200lb** of litter while securing **\$1,700** in funding and **40+** members.