

Ethan L.D. Haarer

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Education

Georgia Institute of Technology, College of Computing

B.S. in Computer Science

Class of 2024

Threads: Intelligence and Devices, GPA: 3.62

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Algorithm Analysis and Design, Objects and Design, Machine Learning, and Computer Vision

M.S in Computer Science

Class of 2025

Focus: Machine Learning

Experience

Enterprise Computing Intern, Homesteaders Life Company

May – August 2022

- Developed and implemented an IT Asset Management system to reduce missing and orphaned assets, maximized useful life and ROI, providing greater insights into asset utilization, capacity management, maintenance expense, and asset depreciation
- Reduced mean repair time by approximately 20% which led to an increase in ROI for over 1,300 assets
- Overhauled data framework and integrated a new tracking system to manage asset ownership and forensic backlogging for IT and all departments; utilized Power BI and Postman
- Performed daily standup in an AGILE workspace with key stakeholders to provide updates and key blockers

Peer Instructor at the HIVE, Georgia Tech's Electrical Engineering Makerspace

January 2022 - Present

- Assist and instruct hundreds of electrical engineers in prototyping and configuring projects from ideation to engineering, fabrication, testing and deployment
- Certified in technical tools including waveform generators and oscilloscopes, PCB fabrication, 3D printing, Laser Cutting, and Soldering, as well as CAD Design and fabrication

IT intern for Fulton County Schools

January – March 2020

- Assisted the IT Specialist in supporting 1,200+ administrators, faculty, and students with technology upgrades, device transitions, and daily technical concerns
- Performed maintenance on hundreds of devices to establish and maintain compatibility on the GA Fulton County Network

Projects & Teams

Developer, Accelerating Materials with Machine Learning, a Vertically Integrated Project

August 2023 – Present

- Working within the Fung Lab at Georgia Tech to train an ML model using the QM9 dataset to accurately predict properties and attributes of given chemical structures
- Optimizing ML models with NumPy to inversely develop materials for eventual use by pharmaceutical companies to generate new medicines

Historical Data Visualization Website Capstone

August 2022 – May 2023

- Developed a website using React.js to map historical data of violent crimes in Italy for researchers at George Mason University alongside Georgia Tech students as a junior capstone project
- Utilized a Postgres Database alongside Mapbox.gl to create a customizable interface to query and export custom dataset
- Designed Data Visualizations to denote changes and continuities in database of historical accounts
- Containerized final deliverable website using Docker to hand off to client

Web Developer, VoterTech, a Vertically Integrated Project

January – May 2022

- Analyzed data from polling teams to create a website that mitigates factors that inhibited people from voting in general elections by increasing the user's ability to make better informed decisions in elections, and provided polling, transportation, and logistics information for all elections
- Spearheaded and co-led the Representative Funding page, which provided information on which companies and organizations financially supported Senators and House Representatives
- Conducted bi-weekly code reviews and presentations to review team's work, future goals, and milestones

Technical Skills

Technical Skills: Java, Python, C, C++, MySQL, AWS Technologies, Docker, F Prime, HTML/CSS, Arduino, Circuit Analysis
Experience: NumPy, PyTorch, Matplotlib, Git, AWS Lambda, AWS SAM, AWS Elastic Beanstalk, AWS X-Ray, Azure, Power BI, JIRA, LDAP, SAML, Confluence, Office 365 Suite, CAD, React, Django, Postgres