

Damita Sara George

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science in Computer Science, Minors in AI & Philosophy
GPA: 3.743

Expected May 2027

Relevant Courses: Intro to ML, Analysis of Algorithms, Data Structures & OOP, Discrete Math, Statistics, Calc III

Fall 2025 Courses: AI Reasoning & Decision Making, Principles of Large Scale ML Systems, Robotics

TECHNICAL SKILLS

- **Languages:** Python, Java, OCaml, JavaScript, TypeScript, HTML/CSS, Cypher (Query Language), SQL, Bash
- **Technologies:** React, Next, Tailwind CSS, FastAPI, Cypress, ChatGPT, Prompt Engineering, Neo4j, Jira, Oracle SQL Developer
- **Developer Tools:** Git, GitHub, GitLab, Pulsar, VSCode, IntelliJ, Jupyter, Unix/Linux Shell, Eagle, Agile/Scrum, Unit/E2E testing
- **Other:** NVIDIA Omniverse Isaac Sim, Unity, REST APIs

WORK EXPERIENCE

Lawrence Livermore National Laboratory, Livermore, CA, *Software Engineer Intern* **May-Aug 2025**

- Built interactive visualization frameworks to display laser system experiment data
- Developed React.js and TypeScript frontend interface and Python (FastAPI) backend for data processing
- Used Plotly to create heatmaps and trace graphs; added support for image-based graph types
- Used SQL to query relational databases and extract valid experimental data for testing purposes.
- Wrote end-to-end tests using Cypress to ensure UI reliability and functionality
- Collaborated within an agile software team to gather user requirements, iterate on prototypes, and conduct end-user testing
- Recognized as a Top 6 Presenter (out of ~40 undergraduate and graduate computing interns) for a technical poster presentation describing project design, implementation, and results

HiPaas Inc., Pleasanton, CA, *Software Engineer Intern* **Jun-Aug 2024**

- Developed and optimized a machine learning model for predictive analysis on health insurance claims.
- Queried and traversed Neo4j databases using Cypher for data extraction.
- Conducted data preprocessing, including cleaning and normalization, to prepare datasets for analysis.
- Utilized TensorFlow and PyTorch to build and deploy AI solutions.
- Built a Claims Embedding Network and a Multi-Task Learning Network based on BioBERT research to improve payer response predictions and enhance claims processing accuracy.

LEADERSHIP EXPERIENCE

Society of Women Engineers: Cornell Chapter, Ithaca, NY, *Outreach Co-Coordinator* **April 2025-Present**

- Oversee 9 outreach committees with 50+ student members, supporting initiatives for Girl Scouts, local schools, community organizations, prospective students, and current undergraduates
- Coordinate and manage outreach events designed to increase student engagement in engineering and broaden participation in STEM
- Act as a liaison between community partners and SWE members, ensuring strong relationships and collaboration
- Provide logistical oversight, mentorship, and event-planning support to ensure smooth execution of large-scale outreach programs.

Computer Security Competition (CyberPatriot), Livermore, CA, *Team Captain* **Aug 2022-Jun 2023**

- Responsible for building, motivating, and training two competition teams, >10 people
- Developed a comprehensive training plan; eventually ranked in top 3.9% of competitors nationwide and qualified for national semi-finals
- Competed within 6-hour timeframe to secure Linux, Windows, & Cisco devices for 4+ competition rounds by utilizing account management, security policies, scripting and command-line access

TECHNICAL PROJECTS

EmPRISE Lab, Ithaca, NY, *Robotics Student Researcher* **Sep 2025-Present**

- Explored migration of Unity-based robotic caregiving simulations to NVIDIA Isaac Sim (Omniverse), including asset conversion (FBX → USD)
- Set up and tested IsaacSim with documenting workflows for robot import (URDF), environment recreation (USD), and replacing Unity C# control scripts with Python/ROS 2

ADDITIONAL EXPERIENCE

Blueberry Technology, San Jose, CA, *AI & Robotics Software Intern*

Jun-Aug 2022

Civil Air Patrol Tri-Valley Squadron 156, Livermore, CA, *Cadet Leader*

Jan 2021-Jul 2023

Cornell Mars Rover, Ithaca, NY, *Electrical Engineer*

October 2023-Dec 2024