

# 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
- **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

## 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.

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

**Jun-Aug 2022**

- Aided in process of testing autonomous wheelchairs by creating an SOP for an airport trial, analyzing trial results, annotating images to train AI model, and compiling a results report
- Contributed to building an efficient machine learning model, utilized artificial intelligence, robot operating systems (ROS), object detection & tracking (YOLO), and depth estimation

## LEADERSHIP EXPERIENCE

**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

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

**October 2023-Present**

- Enhanced proficiency in GitHub for version control of electrical schematics, PCB layouts, and firmware code
- Designed and developed printed circuit boards (PCBs) using the Eagle platform for critical electrical components
- Led the development of a Battery Monitoring board and Brushed Motor (BDC) board to monitor motor output and current & voltage levels

## ADDITIONAL EXPERIENCE

**EmPRISE Lab**, Ithaca, NY, *Student Researcher*

**Nov 2024-Present**

**Society of Women Engineers Cornell Chapter**, Ithaca, NY, *Outreach Coordinator*

**April 2025-Present**

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

**Jan 2021-Jul 2023**

**Genesis: A Gamaliel Member**, Oakland, CA, *Genesis Summer Intern*

**Jun-Jul 2022**