

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 Machine Learning, Analysis of Algorithms, Data Structures & OOP, Discrete Math, Statistics, Calc III

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

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