Damita Sara George

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EDUCATION
Cornell University, College of Engineering, Ithaca, NY   **Expected May 2027**
Bachelor of Science in Computer Science, Minors in AI & Philosophy
GPA: 3.743

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)
- **Technologies**: React, Next, Tailwind CSS, FastAPI, ChatGPT, Prompt Engineering, Neo4j, Jira
- **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**
- Designed and implemented interactive visualization frameworks to explore laser system experiment data
- Developed front-end interface using **React.js**, **TypeScript**, and **Plotly** for intuitive data exploration
- Built backend functionality in **Python** to retrieve, preprocess, and deliver scientific datasets
- 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**