

CAMILA NUNEZ

U.S. Citizen | Fairfax, VA | (703) 559-2312 | djs8zw@virginia.edu | [Personal Website](#) | [LinkedIn](#) | [GitHub](#)

SKILLS

Java, Python, C, SQL, React, HTML, CSS, JavaScript, Git, Software Testing, Machine Learning, PyTorch, English, Spanish

EDUCATION

University of Virginia

May 2025

B.A. Computer Science GPA 3.6

Charlottesville, VA

- Relevant Coursework: Software Development Essentials, Object Oriented Programming, Data Structures and Algorithms, Computer Systems and Organization, User Experience for Software Development, Cloud Computing

EXPERIENCE

Software Engineer Fellow

July 2024 - September 2024

Headstarter

Remote

- Completed software engineering development program gaining practical skills through mentorship and hands-on experience
- Led development of 4 full-stack applications over 5 weeks, meeting deployment timelines and managing version control
- Coordinated with team of 3 to deliver clean and maintainable code adhering to project requirements across the SDLC

Undergraduate AI Research Intern

May 2023 - July 2023

National Science Foundation | University of North Texas

Denton, TX

- Collaborated with researchers across 10 weeks in non-technical departments to solve unique research challenges through an interdisciplinary approach using AI, resulting in innovative data-driven solutions
- Optimized ML models in PyTorch to enhance understanding of model architecture and impact on dataset performance
- Communicated research findings through technical report, internal poster, and presentation to cohort of 60 colleagues

Coding Instructor Intern

February 2023 - April 2023

Cybertech Academy

Fairfax, VA

- Independently taught 3 classes of 15 children core programming concepts through lectures and hands-on coding in Lua
- Fostered engagement by guiding students to build programs in Minecraft and Roblox, showcasing real-world coding uses

RESEARCH

Predictive Model of Depth Thermography | Python, PyTorch, pandas, NumPy, scikit-learn, Matplotlib

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- Engineered a neural network in PyTorch improving accuracy by 72.77% of original physics-based depth thermography technique, enabling more precise 3-D temperature distribution measurements for semiconductor research uses
- Developed flexible and scalable feedforward model architecture, optimizing layer configurations and activation functions
- Performed comprehensive training and validation of model robustness handling noisy infrared thermal data input

PROJECTS

AlgoBot: Data Structures and Algorithms Chatbot | ReactJS, Material UI, NodeJS, Groq AI API, Clerk API, Vercel

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- Utilized NLP and Llama 3 model integration to create a data structures and algorithms conversational chatbot
- Deployed a full-stack web application with secure user authentication, responsive front-end interface, backend infrastructure for real-time data processing and efficient query management, and multiple API integrations
- Enhanced LLM capabilities to include conceptual explanations, example-based learning, practice problems, code snippets, and interview preparation, designed to be user-friendly and encouraging through advanced prompt engineering

Student Course Reviews Management: CRUD Application | Java, SQL, JDBC, JavaFX

- Developed course review management system with CRUD functionalities, leveraging SQLite databases and JDBC for seamless data storage and retrieval
- Drove team's success in end-to-end development from MVC architecture design to backend handling and UI in JavaFX

INVOLVEMENTS

Runway at UVA | Head Director of Models

August 2023 – Present

- Led 25 student models in fashion show production with 200+ attendees, overseeing logistics and runway preparation

Women in Computing Sciences (WiCS), ML@UVA, Society of Hispanic Professional Engineers (SHPE), Rewriting the Code (RTC), ColorStack