CAMILA NUNEZ

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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, Object Oriented Programming, Data Structures and Algorithms, Computer Systems and Organization, Human Computing Interaction (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 by leveraging CI/CD pipelines
- Collaborated in teams of 3 to fulfill project requirements, consistently delivering clean and maintainable code

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**
Cyberteck Academy   *Fairfax, VA*
- Led 3 classes of 15 children teaching core programming concepts through lectures and hands-on coding in Lua
- Fostered engagement by guiding students to create programs in Minecraft and Roblox, showcasing real-world coding

RESEARCH

Predictive Model of Depth Thermography | *Python, PyTorch, pandas, NumPy, scikit-learn, Matplotlib*   **View**
- 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 | *React.js, Material UI, Node.js, Groq AI API, Clerk API, Vercel*   **View**
- 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*
- Led team of 3 to develop course reviews application with Create, Read, Update, and Delete functionalities through efficient database management
- Designed application for team using MVC pattern ensuring maintainable architecture

INVOLVEMENTS

Runway at UVA | *Head Director of Models*   *August 2023 – Present*
- Led 25 student models for a student-produced fashion show with 200+ attendees, overseeing logistics, and runway walk

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