

ELLIE KALITSI

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EDUCATION

Spelman College - Atlanta, GA

GRADUATION: DECEMBER 2025

- B.S. in Computer Science
- Relevant Coursework: Programming and Data Science (Python), Computing Information Systems, C++ Principles, Data Structures and Theoretical Foundations of Computer Science, Calc I, Calc II, General Statics, Theory Programming Languages, Physics I: Mechanics, Networks and Security, Intro to Web Development, Discrete Structures, DataBase & Management, Human Computer Interaction, Linear Algebra.

Skills:

- **Software Development:** C++/C#, Unity Java, TypeScript, PHP, Python, React, HTML, Bootstrap, and FORTRAN
- **Machine Learning/Data Science:** Computer Vision, AWS, Spark, WebGL, TensorFlow, and PyTorch
- **Frameworks/Libraries/Databases:** Spring Boot, Three.js, MySQL, PostgreSQL, MongoDB, and Numpy
- **Languages:** English(Fluent) and Spanish(Intermediate)

RELEVANT EXPERIENCE

Full Stack Software Engineer Intern, Education Startup, Washington DC

MAY 2025 - PRESENT

- Implementing full stack features for a mid-stage product and introducing new methods of data collection.
- Creating migrations files and querying databases to produce effective and accurate results.

Machine Learning Researcher, Spelman College, Atlanta GA

MAY 2025 - PRESENT

- Working with an ML framework for binary trees & phylogenetic modeling in hyperbolic space;
- Working with Dr. Antonio Moretti in a group of 2 to extend sequential Monte Carlo methods.

Full-Stack Software Engineer Intern, Amazon, Washington DC

MAY 2024 - AUGUST 2024

- Implemented an API to optimize the Unload Workflow in all North America and Europe Warehouses.
- Created backwards compatible solutions that stored idempotency keys inside AWS buckets each time a work request is made. Updated sync call Paths to prevent sev 3s from happening during Unload Pallet Profiling.
- Created unit testings and tracked solutions metrics to support pallet overcapacity of materials that are introduced to Inbound.
- Deployed solutions and created a cloudwatch dashboard to monitor the new workflow in production.

Frontend Software Engineer Intern Amazon, Arlington VA

MAY 2023 - AUGUST 2023

- Implemented a user-friendly UI improvement for web applications used for the AFT team.
- Developed a printing API to separate the binary stream of a file during Proof of Delivery Profile
- Deployed and tracked frontend usage metrics to analyze the success of my feature changes in production.

Data & Analytics Intern, Coca Cola, Atlanta GA

JUNE 2022 – AUGUST 2022

- Created comprehensive visual reports in PowerBI for clients and supervisors.
- Worked on analytical tools for supervisors to provide a statistical score using Python and PowerBI.

LEADERSHIP & SERVICE

Co-Lead of HBCU Game Jam - Atlanta GA

JAN 2025 - APRIL 2025

- Co-Lead the partnership organization and led of managing logistics and participant engagement.
- Led a workshop for XR Gaming Dev 101, programmed managed schedule flows, and hosted Game Jam sponsors

Spelman XR Club - Atlanta, GA

AUGUST 2021- MAY 2025

- Teaching students how to experiment with gaming simulations and 3D modeling using the Unity Game Engine
- Spearheading Hackathons/Projects/and XR Enthusiasm .

Head of Tech-Ops - The Blue Record Podcast Atlanta GA

MAY 2024 - MAY 2025

- Maintained the website of TBR, created features changes and implemented new UX Designs
- Program manager for all audio engineering and sound mixing

PROJECTS & HACKATHONS

1st Place Vanderbilt Data Science Hackathon , Atlanta GA

APRIL 2025

- In a group of 6 we created an AI agent using Open-FDA API that is called "Mama-Shield". This website was made to help mothers trying & expecting learn which medications & foods to avoid with image processing features.
- Implemented image recognition functionality to automate the identification of medication ingredients.