

Jazmine Ayabar

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EDUCATION

Duke University , <i>Trinity College of Arts and Sciences - Durham, NC</i>	May 2027
Bachelor of Science, Computer Science - Concentration in AI and ML	
Bachelor of Arts, Political Science - Concentration in Decision Theory and Data Science	GPA: 3.4

TECHNICAL SKILLS

- **Programming:** Python, JavaScript, Java, C++, C, R, SQL, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, Flask, PyTorch, TensorFlow, scikit-learn, NumPy, Pandas
- **Databases & Cloud:** MongoDB, Google Cloud
- **Tools & Development:** Git, Docker, Google Colab, Arduino, Raspberry Pi
- **CAD/Manufacturing:** Fusion 360, Onshape, 3D printing, laser cutting, CNC routing

WORK EXPERIENCE

Forward Deployed Engineer Intern	May 2026 – Present
<i>Teclaz</i>	<i>Atlanta, GA/Hybrid</i>

- Spearheaded a comprehensive UI/UX overhaul of public landing pages and internal administrative tools using React, HTML, and CSS, improving usability and visual consistency across the platform
- Developed full-stack features using Node.js, Flask, and MongoDB to support web-traffic analytics
- Assisted in training and refining machine learning models to analyze web-traffic patterns, supporting automated bot detection and user-intent classification
- Conducted qualitative customer interviews and translated user feedback into prioritized product requirements, full-stack updates, and UI enhancements
- Managed project execution across frontend development, backend engineering, machine learning, and product strategy in a lean startup environment; represented Teclaz at investor and partner showcases

Head Undergraduate Teaching Assistant	Aug. 2025 – Present
<i>COMPSCI 240: Race, Gender, Class, & Computing</i>	<i>Durham, NC</i>

- Manage five TAs and oversee course operations for 70+ students
- Lead assignment grading and identify patterns in student errors to provide targeted feedback
- Guide students in analyzing societal impacts and biases of computing systems and responsible AI principles

Robotics Intern	May 2024 – Aug. 2024
<i>Shaw Industries</i>	<i>Dalton, GA</i>

- Co-designed and deployed hardware-software prototypes with a 4-person engineering team, integrating LiDAR sensors and Raspberry Pi microcontrollers for autonomous material handling
- Prototyped robotics and IoT manufacturing solutions using Arduino, C++, Raspberry Pi, LiDAR, Docker
- Built and programmed a laser-guided vehicle and collaborative robot for a capstone project

PROJECTS

Duke University Marching Band Management Platform & Data Pipeline	June 2025 – Present
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- Architected and deployed a web-based management database for 110+ band members to track real-time attendance, roster updates, and uniform compliance
- Built an automated Python/SQL ETL pipeline to aggregate raw attendance trends and generate proactive risk reports, cutting administrative reporting overhead by 3+ hours weekly
- Developed custom analytics dashboards and merit-ranking algorithms to provide data-driven insights for organizational leadership during high-stakes travel selections

Computing Research Association: UR2PHD	May 2025 – Aug. 2025
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- Completed training and projects in computing research methods, including literature review, experiment replication, data analysis, and visualization
- Analyzed and recreated results from published research papers using Python and Google Colab

HONORS & FELLOWSHIPS

- **Duke SPIRE Fellow:** academic scholarship for select students in STEM disciplines **2024 – Present**
- **Gates Scholar:** Bill and Melinda Gates Scholarship Recipient **2023 – Present**