

# Charlotte Sandoli

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## EDUCATION

### Georgia Institute of Technology

Bachelor of Science in Computer Engineering

*Concentration: Cybersecurity and Computer Hardware and Emerging Architectures*

Atlanta, GA

Graduation: May 2028

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## LANGUAGES

English (fluent), Portuguese (fluent), French (fluent), Spanish (advanced), German (beginner)

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## RELEVANT EXPERIENCE

### Swift Mobile Application

*Developer @Kode w/ Klossy, Swift Playground*

Built and shipped a functional iOS app using **Swift** and **Swift Playground**, with a strong emphasis on user-friendly interface and feature design for mobile. Applied project-based learning to develop interactive, visually appealing components and optimize performance based on user testing.

Rio de Janeiro, Brazil

Feb 2022–Dec 2022

### Music Education Web Project

*Frontend Developer*

Designed and implemented educational web interfaces using **Java**, **HTML**, and **CSS**. Delivered a responsive, intuitive experience in browser-based tutorials using modern web fundamentals.

Rio de Janeiro, Brazil

Feb 2022–Dec 2023

### Reservoir Modeling & 3D Visualization

*Project Member*

Modeled engineering systems and created 3D visualizations using **Python**, **MATLAB**, and **SolidWorks**. Produced technical diagrams and interactive flowcharts to support team collaboration and better workflow clarity.

West Lafayette, IN

Aug 2024–Jan 2025

### Grey Hats @GT

*Member, Developer*

Practiced secure coding, documentation, and debugging for technical automation challenges and internal tools. Enhanced user experience and collaborated on project decisions with peers.

Atlanta, GA

Aug 2025–Present

### RSA Quantum Decryption Study

*Student Researcher*

Researched quantum computing's implications for encryption, focusing on **Shor's Algorithm** and **RSA**. Communicated technical findings and risks through presentations.

Rio de Janeiro, Brazil

Jan 2022–Dec 2023

### CPU Architecture Efficiency Analysis

*Developer*

Benchmarked sorting algorithm performance and system scalability across hardware architectures using experimental data and documentation.

Rio de Janeiro, Brazil

Jan 2022–Dec 2023

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## TECHNICAL SKILLS

Programming UI: **Swift**, **Swift Playground**, Java, C, Python, HTML, CSS

3D Visualization: **SolidWorks**, MATLAB

Other: Debugging, Data Structures, Algorithms, User Experience, Technical Documentation, Beginner Cloud Concepts, Git

Experience designing interfaces and optimizing performance for UI/UX

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## COMMUNITY LEADERSHIP

### SHPE – Society of Hispanic Professional Engineers

*Active Member*

Led STEM outreach and contributed to technical education accessibility.

Atlanta, GA / West Lafayette, IN

Jan 2025–Present

### BRASA – Brazilian Student Association

*Board Head of Marketing / Member*

Organized campaigns and documented creative solutions for technical community engagement.

West Lafayette, IN

Aug 2024–May 2025

### International Conference Attendee – Business Today BT

*Selected Attendee*

Networked with industry leaders and presented findings on data modeling and visualization.

Princeton/New York, NY

Dec 2025