

Michelle Ponce

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EDUCATION

Georgia Institute of Technology, College of Computing

Expected May 2026

Bachelor of Science in Computer Science - 3.67/4.0

Atlanta, GA

- Society of Hispanic Professional Engineers, FirstGen at GT

RELEVANT EXPERIENCE

Software Development Engineer Intern

May 2025 – August 2025

Microsoft

Atlanta, GA

- Integrated a deduplication workflow utilizing Azure AI Search, identifying duplicate repair items in backlog for improved efficiency in risk management
- Built a batch uploading pipeline for backlog items into Azure AI Search from Kusto Database, using vector embeddings and Open AI powered summarization to enable semantic search across large amounts of items.
- Designed a CLI tool that demonstrated the full deduplication logic, including semantic similarity scoring and JSON formatting for future workflow integration.

Software Development Engineer Intern

May 2024 – August 2024

Amazon

Seattle, WA

- Developed a dynamic configuration management system using AWS AppConfig with hosted configuration storage.
- Created a JSON configuration schema validator, migrated existing in-package configurations to the hosted storage, and built custom deserialization for integration with Kotlin data classes.
- Built a front-end interface to enable clients accessibility to their product configurations without service package interaction.

AFE Software Development Engineer Intern

May 2023 – August 2023

Amazon

Seattle, WA

- Implemented new input fields and visibility dashboards to monitor 15 external FoodVoucherCard partner availability metrics and potential partner outages for Amazon Mexico.
- Improved three teams' efficiency in handling availability drops per provider, cutting down an hour-long, manual process to seconds through automation.
- Established heavy unit testing using JUnit and Mockito to ensure effective code in various edge case scenarios.

RESEARCH

Undergraduate Researcher

August 2023 – Present

Georgia Tech VIP Program

Atlanta, GA

- Developed mathematical models to optimize TNC (Transportation Network Company) and public transit partnerships, focusing on enhancing mobility, accessibility, and safety to promote sustainable travel.
- Designed strategies to address first/last mile challenges and improve access to essential services for disadvantaged groups, including pricing mechanisms to ensure affordability and equity.

Undergraduate Research Assistant

January 2023 – May 2023

Georgia Institute of Technology

Atlanta, GA

- Explored hypothesis behavior analysis in the medical field regarding self diagnosis and health symptom associations utilizing PsychoPy
- Conducted psychological trials with 75 participants over several months, including participant recruitment, data collection and analysis, and guideline compliance

TECHNICAL SKILLS

Languages and Frameworks: Java, Kotlin, Javascript, Typescript, HTML/CSS, Python, C, C#, .NET

Infrastructure & Cloud: Azure (DevOps, KQL/Kusto), AWS (CloudWatch, AppConfig), Docker, Firebase

Tools & Design: Git/Github, Gradle, Jira, IntelliJ, VS Code, Figma, Adobe Photoshop

Certifications: Social and Behavioral Research Practices for Clinical Research, Visual Design using Adobe Photoshop CC 2018