

MAURICIO GARCIA-PAEZ

Mauricio.GarciaPaez@proton.me | 919-627-3493 | Durham, NC
mauricio425.github.io | linkedin.com/in/mauricio-garciapaez

SUMMARY

Results-Oriented Software Developer with a Bachelors in Computer Science (2025) and expertise in Back-end Engineering, Cloud Infrastructure, and Systems Programming. Proven ability to build scalable, offline-first architectures using Java, Spring Boot, and AWS. Passionate about leveraging AI/ML and database optimization to solve complex real-world problems. Seeking a software engineer role .

KEY SKILLS

- **Languages:** Java, C, C++, Python, SQL, JavaScript, PHP, Kotlin
 - **Backend & Frameworks:** Spring Boot, REST APIs, JWT Authentication, Hibernate, Android Room.
 - **Cloud & Infrastructure:** AWS (EC2, RDS), Google Firebase, Gradle, Git.
 - **Database:** PostgreSQL, MySQL, Query Optimization, ER Modeling.
 - **AI & Concepts:** Machine Learning, LLMs, Multithreading, Agile/Scrum, System-Level Programming.
-

TECHNICAL PROJECTS

TrekSafe | Technical Lead & Full-Stack Developer (Academic Capstone)

Architected and deployed a full-stack, offline-first hiker safety network that enables peer-to-peer (BLE) discovery and SOS alert relay in environments without cell service.

- **Backend:** Engineered a 52-endpoint REST API using Java, Spring Boot, and Spring Security (JWT); managed the production PostgreSQL schema and deployed the application as a systemd service on AWS EC2 connected to AWS RDS
 - **Android:** Led development of the Kotlin client, architecting it with a strict MVVM pattern, Jetpack Compose (UI), Room DB for offline-first data caching, and WorkManager for resilient background data synchronization
 - **Core Feature:** Implemented the end-to-end "SOS Relay," integrating the Firebase Admin SDK (FCM) on the backend to push real-time alerts from stranded users to their emergency contacts via a Bluetooth Low Energy (BLE)
 - **Security & DevOps:** Secured all cloud credentials (Google Maps, Firebase) by separating keys from the codebase; remediated a critical security vulnerability by revoking a leaked key, scrubbing it from the Git history using git filter-branch, and updating server environment variables.
-

**WORK
EXPERIENCE**

Amazon Fulfillment Center Associate	Oct 2019 - Present
<ul style="list-style-type: none">Analyzed workflow logistics to identify operational bottlenecks, implementing strategies that reduced excessive work buildup.Managed resource allocation across multiple warehouse sectors to ensure 100% operational continuity during peak volume periods.Maintained high productivity metrics, consistently meeting or exceeding daily throughput targets in a fast-paced logistics environment.	
AutismCOE Behavioral Health Technician	May 2023 - Aug 2023
<ul style="list-style-type: none">Collected and analyzed quantitative behavioral data during therapy sessions to track client progress against treatment plans.Executed individualized intervention strategies, maintaining 100% compliance with safety protocols and detailed documentation standards.Collaborated with clinical supervisors to refine treatment goals based on daily data analysis.	
Internship, Salford & Co Corporation	Apr 2021 - Dec 2021
<ul style="list-style-type: none">Supported senior executives with administrative tasks, including scheduling meetings, managing correspondence, and preparing reports.Assisted in the planning and execution of corporate events and client meetings, ensuring a high level of professionalism and attention to detail.	

EDUCATION

Bachelor of Science in Computer Science	Dec 2025
University of North Carolina Greensboro	
Associate in Arts	May 2020
Durham Tech Community College	