

Johan Zapata

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EDUCATION

Clemson University, Clemson, SC

BS in Computer Science, Minor in Cybersecurity

Relevant Coursework: Software Engineering, Computer Security Principles

Awards: Clemson University's President's List Fall 22

May 2026

GPA: 3.22

TECHNICAL SKILLS

- Programming Languages: Python | C | C++ | SQL | Java | | HTML/CSS
- Frameworks & Tools: Django | Node.js | Expo | Postman | Azure DevOps | Wireshark |
- Cloud & Platforms: AWS (Lambda, EC2, DynamoDB, API Gateway) | Linux
- Development Practices: Agile | Scrum | Kanban | Git & GitHub | Test-Driven Development (TDD)
- Bilingual: English (Fluent) | Spanish (Fluent)

RELEVANT EXPERIENCE

Climbing Log Manager – Web Application Development

Jan 2026 – Current

- Built a full-stack climbing activity tracker with HTML/CSS/JavaScript front-end and **Python/Flask, REST API**, supporting **CRUD** operations (GET/POST/PUT/DELETE) and server-authoritative business rules.
- Migrated persistence from local JSON storage to **PostgreSQL** on Render, implementing raw SQL data access via psycopg2 and automated DB initialization/seeding.
- Enforced **server-side validation** and domain constraints (grade sys., types, date rules) to prevent invalid or manipulated client input, returning correct HTTP status codes.
- Used an AI-augmented architecture workflow (Claude/ChatGPT) to draft/revise a **PRD**, evaluate design tradeoffs (client vs. server responsibility, **DB persistence, hosting** options), debug integrations, and iteratively refactor the system across deployment stages.

Driver Incentive Program – Senior Computing Practicum Project

Aug 2025 – Dec 2025

- Developed a **full-stack** Driver Incentive Program with a small-scale team using **Django, Node.js, MySQL**, and AWS to manage sponsor-assigned driver reward points, multi-wallet balances, and catalog purchases, implementing RBAC, automated notifications, and system-wide admin protocols.
- Resolved critical schema conflicts (foreign key mismatches, auto-increment errors), improving **database integrity**.

Database Design & Development – Database Management Systems

Jul 2025 – Dec 2025

- Designed a complete Crow's Foot **Entity-Relationship Diagram (ERD)** for an organization focused on modeling multi-level relationships while creating the appropriate bridge tables to resolve the many-to-many relationships.
- Built an **SQL** script that created all tables with the required datatypes, naming conventions, & structures defined in the ERD—including primary & foreign keys, bridge tables, and discriminator fields.
- Created three production-ready analytical **SQL** views that compute rankings, monthly profits, and business-level summaries required by management.

TIGERCHOW - Software Engineering Project – Scrum Master

Jan 2025 – May 2025

- Led **backend** development of a **microservices-based** food delivery app within a 4-person Agile Team. Oversaw the design and implementation of Notification, Order, & Review services.
- Managed teamwork progress via **Trello** and coordinated **API** development testing in **Postman**. Facilitated **agile** meetings and ensured that progress goals were met on time.

WORK EXPERIENCE

Clemson University, Residential Community Mentor (RCM), Clemson, SC

Jul 2023 – Current

- Serve as a peer leader for 24 first-year students, providing guidance on academic resources, campus integration, and personal development.
- Maintain detailed shift logs and incident reports during overnight on-call rotations.
- Strengthening interpersonal and troubleshooting skills through mentoring and issue resolution.