

Michele Barrantes

Computer Science Student



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Summary

Hard-working and determined 3rd year Computer Science student specializing in software engineering at Indiana University Luddy School of Informatics, Computing, Engineering. Graduated from the International school of Indiana with an IB diploma. Looking to gain hands-on experience. Eager to collaborate with a team to learn and contribute by using the skills gained in class and personal projects.

Education

2021-2025(Expected)

COMPUTER SCIENCE B.S

SECURITY INFORMATICS MINOR

Indiana University, Bloomington, IN, U.S

Skills

- **Computer Languages:** Python, Java, C, Kotlin, Postgresql
- **Web:** HTML, CSS, JS, REACT, PHP, MERN, XML, Spring Boot
- **OS:** Windows, Mac OS, Linux
- **Security:** OWASP, Burp Suite, Bcrypt, Spring Security
- **Tech:** VS code, Office, Drive, IntelliJ, Rapid API, Github, Android Studio, REST APIs, Firebase, CI pipelines, postman
- **Certifications:** AWS Cloud Practitioner (expected march 2024)
- **Native Languages:** English, Spanish
- **Basic Languages:** French

Relevant Course Work

- computers and programming (python)
- software systems (Java)
- Data structures (Java)
- Mobile App development (Kotlin)
- Programming with C and Unix (C)
- Computing CGI/PHP (CGI, PHP, MYSQL, Python)
- Computing JavaScript (JS, NodeJS)
- Applied Algorithms
- Software Eng for Info Systems
- Object Oriented Programming
- Applied Linear Algebra
- Math for Cybersecurity
- Calculus I

Projects

- **Personal Portfolio Website:** **Summer 2023**
Developed a **responsive** website showcasing ongoing and future projects using **REACT, HTML, CSS, and JS**. Emphasized user interface design and **front-end** development skills.
- **Wellness Tracking Management System** **Spring 2024**
Collaborated in a 5-member **Agile** team to develop a Wellness Management System application using **React, Spring Boot, and Java**. Applied Java **AES** encryption and **hashing** for robust user **data** security. Configured a **CI pipeline** for **testing** purposes, demonstrating proficiency in Agile methodologies, React, Spring Boot, and data **security**. Roles: Scrum Master, backend, testing, **Jira**
- **Food Delivery App with Firebase:** **Fall 2023**
Engineered a food delivery app utilizing Google **Firebase** for user data storage and authentication. Implemented Google Maps **API** to track food delivery to user destinations, showcasing **backend** development, authentication, and **geolocation** skills, with **Kotlin** and **XML**
- **Apache Web server:** **Fall 2023**
Launched and maintain an **apache webserver** on **linux** OS. Implemented **CGI** gates and **Relational** database systems to store user data in the server and fetch it on client side. Implemented **PHP, MySQL, python**
- **Movie Browsing App:** **Fall 2023**
Developed a comprehensive movie app allowing users to browse, search, and filter movies. Leveraged the OMDb **REST API** and coded in **Kotlin** and **XML**, highlighting **mobile** development and **API integration** expertise.
- **AES-256 Encryption and Bcrypt password Hashing:**
developed a AES-256 script for **data encryption** and implemented **Bcrypt** for password hashing. incorporated these skills in the Wellness Tracking system for User data and passwords. **Led** as scrum master for the security development of the project
- **GitHub:** mlch3l3codes **LinkedIn:** Michele Barrantes

Work Experience

LIFE GUARD

YMCA | Indianapolis, Indiana

2022-Present

- Collaborated in a team of 9-12 guards to provide an outstanding experience to guest
- Proficiently communicated and coordinated with other team members or guest to resolve daily task such as pool supervision, equipment checks, guest needs.
- Assured safety by executing pool policies and paying attention to daily task
- Managed unexpected situations by paying attention to detail and being able to multi-task in uncomfortable situations.
- Provided excellent service to more than 1,000 guest

ASSISTANT SUPERVISOR

2022 - present

IU REC SPORTS | Bloomington, Indiana

- Coordinate with the Head Supervisor to assure that all games are running on time
- Directly Supervise a team of 3-6 officials on shift while putting them in the best position possible to deliver a memorable experience to over 5,000 participants college students.
- Resolved over 25 conflicts by mediating and de-escalating rapidly changing situations between college students and officials or rule mis-interpretation.
- Coordinated over 15 medical situations calling 911 and verifying identities and accessing risk status
- Developed game shift reports and ending shift reports detailing feedback and all patron penalties or notable information for supervisors.