

Catherine Rodriquez

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Education

Louisiana State University | Baton Rouge, LA

May 2025

Roger Hadfield Ogden Honors College

GPA: 3.85

Bachelor of Science, Computer Science | Cybersecurity | Software Engineering

- Minor: Digital Media Arts and Engineering Technology
- Distinguished Communicator Candidate

Experience

Deloitte

June 2024 – August 2024

Cyber and Strategic Risk Intern | Houston, TX

- Partnered with AT&T to deploy multifactor authentication (MFA) solutions, significantly strengthening security protocols and safeguarding sensitive data.
- Led the analysis and evaluation of client security frameworks, pinpointing vulnerabilities and crafting comprehensive strategies to address and mitigate potential risks, strengthening the security posture.

TigerByte

August 2023 – April 2024

Workshop Coordinator | Louisiana State University

- Developed TigerByte, a workshop aimed at enhancing the understanding of cybersecurity among non-computer science majors, in collaboration with an LSU professor.
- Conducted engaging and interactive sessions to educate participants on cybersecurity threats, best practices, and risk mitigation strategies.

Projects

Tiger Dorm Defender | Geaux Engineering

August 2024

- Designed a secure dormitory access control system using a full stack approach, utilizing React.js, Node.js, Tailwind.css, and MySQL, ensuring authentication of student residents through LSUID verification.
- Integrated security measures, including real-time error handling, to build a scalable and secure application.

AI-rcade | Personal Project

March 2024 – Present

- Developed an interactive arcade website using HTML, CSS, and JavaScript that incorporates mini games such as Tic-Tac-Toe, Word Search, and Connect Four, with more to come.
- Implemented sophisticated AI algorithms to enhance gameplay and create challenging opponents.

Baby Groot | Personal Project

June 2024 – July 2024

- Leveraged Python's Turtle module to design intricate graphics that draw and animate Baby Groot, encouraging creative problem solving and engagement to the young students participating in eXploreCS.

Technical Skills

Languages: JavaScript, Java, C/C++, Python, C#, MySQL, HTML/CSS, MatLab

Software/Tools: LaTeX, Microsoft Power Apps, React.JS, Node.JS, Redux, Arduino, P5.JS, Tone.JS, Tailwind.CSS, Next.JS

Leadership Experience and Activities

- Chevron Leadership Academy 2022-2025
- Security Society at LSU (SSL) | Secretary 2023-2024
- Geaux Engineering | Design Leader 2023-2025
- TigerAI Boot Camp
- East Laville Community Council | Historian 2022-2023
- Society of Peer Mentors (SPM)
- Chillennium Collegiate Game Jam 2023
- eXploreCS Summer Camp | Mentor