

NICOLE CINDY LUCAS

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EDUCATION

Washington University in St. Louis

May 2025

Bachelor's of Science in Computer Science, Minor: Human-Computer Interaction

Honors: Annika Rodriguez Scholar (1% acceptance rate, full-tuition scholarship for academics, leadership, service)

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Software Development, Web Development

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, C#, JavaScript, HTML, CSS, React, PHP, Swift, AVR Assembly

Frameworks & Libraries: Node.js, React,

Tools & Platforms: Git, Docker, Unity, Figma, Netlify, AWS, Azure

Databases: SQL, MongoDB, PostgreSQL

RELEVANT EXPERIENCE

Equitech Futures - Applied Data Institute Scholar

Aug 2025 - Present

- Engineered a data analytics platform addressing Africa's water infrastructure challenges by collaborating with Athena Infonomics and Africa Utility Data Collaborative.
- Designed and developed an interactive dashboard for real-time monitoring of production, billing, and compliance metrics, leveraging Python, Streamlit, and Plotly.
- Developed data-driven frameworks for water resource optimization, enabling policymakers to improve access to clean water for millions, showcasing the platform's impact.

InvestSTL - Data Analyst & UX Researcher

Jun 2023 – Aug 2023

- Built and optimized a real-time mapping platform using Python and SQL, aggregating data for 50+ neighborhoods to inform community investment strategies.
- Streamlined data cleaning processes and extracted actionable insights, increasing platform adoption rates by 25%.
- Enhances user experience by implementing 15+ UX recommendations based on research, boosting beta user satisfaction and usability.

Washington University Robotics Team - Arm Team Member

Dec 2022 – May 2023

- Developed and programmed a 4-DOF robotic arm with integrated computer vision, enabling autonomous object manipulation and precision control.
- Collaborated with the software team to implement machine learning algorithms, improving servo control accuracy and robotic performance by optimizing motion paths.

Classover Inc - Coding Instructor

Sep 2025- Present

- Mentored 10+ students in weekly coding lessons, utilizing WhalesBot and Makeblock kits to enhance Python and Scratch proficiency.
- Designed engaging coding exercises that improved student understanding of programming fundamentals, achieving a 95% satisfaction rate among parents and students.

PROJECTS

Spot that Tune (Swift, Objective C, SQLite, Spotify API, XCode)

- Designed and implemented a music trivia app that integrates Spotify's API to extract and analyze music metadata, enhancing user experience through personalized song recommendations.
- Built and SQLite backend to efficiently store and manage user data, including scores and leaderboard rankings.

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers | St. Louis, MO

Jan 2023 – May 2025

President

- Revitalized the SHPE chapter, increasing membership by 200% (from 50 to 150 members) through strategic programming and mentorship initiatives.