Lauren Rodriguez

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EDUCATION

St. John's University

Master of Science in Artificial Intelligence & Data Science | **GPA: 4.00/4.00** *May 2027*

Bachelor of Science in Computer Science, *Summa Cum Laude* | **GPA: 3.94/4.00** *May 2026*

• Awards: HSF Scholar (x2), CCPS HS, ODK, NSLS, Phi Eta Sigma, Dean's List (x8), Provost Scholar, Clare Boothe Luce Scholar

AWS AI & ML Scholars Program *Nov 2025 - Present*

• ***AWS AI Scientist***: Selected for advanced training in AI/ML in Python, PyTorch, deep learning, and transformer-based models.

• ***Future AWS Agent Engineer***: Training in agentic AI, building AI systems with RAG, APIs, and AWS services like Amazon Bedrock.

TECHNICAL SKILLS

Languages & Data: Python, SQL, R, Java, JavaScript, TypeScript; pandas, NumPy, scikit-learn; MongoDB, PostgreSQL, MySQL
Frameworks & Libraries: React, Node.js, Flask, Tailwind CSS
Backend & Cloud: REST APIs, AWS Lambda, EventBridge, serverless workflows
Tools & Platforms: Git, GitHub, VS Code, PyCharm, MySQL Workbench, Figma, Contentful, Google Analytics, Excel
Certifications: Microsoft Certified: Azure AI Fundamentals (AI-901)

EXPERIENCE

Bukhari Lab St. John's University

Full-Stack Research Software Engineer *May 2026 – Aug 2026*

• Engineered a **human-in-the-loop agentic content pipeline** using **n8n, Google Gemini, Sheets, Drive, Cloudflare, and LinkedIn APIs** to generate research posts and infographics, automate review workflows, and gate publication.

• Modernized **2 production research websites** supporting trustworthy AI and biomedical informatics, rebuilding the lab site in **Jekyll/GitHub Pages** and developing an academic portfolio with **5 primary sections** and **2 searchable, data-backed archives**.

IBM Research Remote

Research Software Contributor *Nov 2025 – May 2026*

• Modernized OSCAL Compass compliance-trestle components from **NIST 800-53 Rev. 4 to Rev. 5**, updating documentation, scripts, schemas, and automated test coverage to align tooling with current federal security controls.

• Collaborated with IBM Research stakeholders through iterative reviews and **5+ pull requests** to enhance validation workflows, improving consistency with updated federal security controls.

MalterTech LLC New York, NY

Junior Web Developer Intern *Jun 2025 – Jul 2025*

• Developed and successfully deployed a secure, scalable **Slack–Asana integration bot** using **Python, Bolt SDK, MongoDB, and AWS Lambda**, automating weekly task reporting for **10+ client teams** and cutting manual update time by 80% with error handling.

• Designed and implemented a serverless, scalable, cloud-native architecture on AWS using EventBridge-scheduled Lambda functions with dynamic configurations in MongoDB, ensuring reliable automated workflows, consistent report delivery, and improved uptime.

Headstarter New York, NY

Software Engineering Intern & Fellow *Jul 2024 – Sep 2024*

• Collaborated in an agile 4-person team to transition Codetionary from a Discord bot into a production-ready web application using a modern tech stack, implementing Git-based workflows, code reviews, and contributor documentation to support **100+ students**.

• Delivered **5 AI projects** in 7 weeks, including an NLP chatbot, database web app, and personal portfolio, leveraging Google Gemini, Firebase/Firestore, and web technologies to prototype and deploy applications.

LEADERSHIP & INVOLVEMENT

St. John's Hacks Hackathon St. John's University

Founder & Lead Organizer *Feb 2025 – Present*

• Lead end-to-end planning for an **3x annual university hackathon**, coordinating logistics, sponsor outreach, and engagement.

• Secured **$2,000+ in sponsorships**, partnered with **5+ university units**, supported **50+ participants**, and generated **10,000+ promotional impressions** for the annual event.

Leadership: 2x President, CCPS & ODK Honor Society; Graduate Chair, FBLA; Canva, Adobe, WiDS, Base44 Ambassador

PROJECTS

SentimentScope – Transformer-Based Sentiment Classifier| GitHub *Dec 2025*

• Fine-tuned a DistilBERT-based transformer model to analyze sentiment in text data, implementing preprocessing, tokenization, training, and evaluation workflows in Python, and performing validation and error analysis to identify misclassified cases.

PawPrint AI – CNN Image Classification| GitHub *Nov 2025*

• Built a deep learning pipeline in PyTorch to classify dog breeds, including preprocessing, data loaders, and training loops; compared performance across pretrained architectures (VGG, AlexNet, ResNet) using transfer learning and metrics to select the best model.