

Mario Auqui

marioauqui.contact@gmail | www.marioauqui.com | linkedin.com/in/marioauqui | github.com/marioauqui

EDUCATION

Wake Forest University

Winston-Salem, NC

Bachelor of Science in Computer Science | Entrepreneurship Minor

December 2025

Courses: Web Applications | Software Engineering | Data Structures | Algorithms & Analysis | Databases

Computer Systems II | Computer Vision | Neural Networks & Deep Learning | Data Science | Entrepreneurship II & III

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, Java, SQL, C, Bash

Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Flask, Pandas, NumPy, PyTorch, TensorFlow

Databases: PostgreSQL, MySQL, MongoDB

Cloud & DevOps: Git, GitHub, Docker, AWS, Vercel, Linux

Methods & Tools: REST APIs, Responsive Design, Version Control (Git), Agile/Scrum, Figma, Jira, Microsoft Office

EXPERIENCE

Undergraduate Research Fellow

May 2025 – Present

Wake Forest University

Winston-Salem, North Carolina

- Developed computer vision systems in Python to analyze aerial imagery and identify tree distributions across large environmental datasets
- Implemented and optimized object detection pipelines using PyTorch to process imagery under challenging real-world conditions such as dense canopy and variable lighting
- Developed Python data processing pipelines to transform UAV imagery into structured datasets used for model training and evaluation across 1200+ image samples

Data and Machine Learning Intern

May 2024 – August 2024

The Clearing House

New York, New York

- Developed and deployed a data-driven forecasting system on AWS SageMaker to support weekly pre-funding decisions for banks processing over 90% of U.S. wire transactions
- Engineered an end-to-end data processing pipeline using Python, Jupyter Notebook, and Amazon S3 to transform and analyze large-scale financial transaction datasets
- Communicated technical results and system impact to 50+ stakeholders, including executives and VPs, supporting data-informed decision making in financial operations

Project Management Intern

May 2023 – August 2023

Atlantic General Construction

New York, New York

- Coordinated project workflows and task assignments across multiple teams, ensuring projects stayed on schedule and aligned with client requirements
- Resolved day-to-day operational issues and blockers by identifying root causes and coordinating solutions

PROJECTS

StillRio Web Application | stillrio.com

- Developed an interactive travel discovery platform using React, Next.js, and TypeScript to help users explore road trips, destinations, and curated travel content
- Implemented dynamic pages and client-side navigation to organize travel guides, route planning tools, and multimedia content into a seamless user experience
- Integrated external APIs for mapping, weather, and location services to enable dynamic route planning and real-time travel insights
- Designed responsive layouts and modern UI components to ensure consistent performance and usability across desktop and mobile devices

Developer Portfolio Website | marioauqui.com

- Built a fully responsive developer portfolio website using React, Next.js, and Tailwind CSS to showcase technical projects, research work, and professional experience
- Architected reusable UI components and modular page structures to improve maintainability and support scalable frontend development
- Implemented responsive layouts and optimized styling to deliver a smooth user experience across mobile, tablet, and desktop devices
- Deployed the site on Vercel with CI/CD pipelines for automated builds and reliable production hosting