

# Mario Auqui

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## EDUCATION

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### Wake Forest University

Bachelor of Science in Computer Science | *Entrepreneurship Minor*

Winston-Salem, NC

December 2025

**Courses:** Statistics I | Statistics II | Data Science | Databases | Algorithms & Analysis

Neural Networks & Deep Learning | Computer Vision | Data Structures | Software Engineering | Web Applications

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, PyTorch, TensorFlow, Keras, OpenCV, React, Next.js, Node.js, Flask

**Databases:** PostgreSQL, MySQL, MongoDB

**Cloud & DevOps:** AWS, Azure, Docker, Git, GitHub, Vercel, Jupyter Notebook, Linux

**Methods & Tools:** Microsoft Excel, Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Agile/Scrum, Jira, Figma, Confluence, SharePoint

## EXPERIENCE

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### Undergraduate Research Fellow

Wake Forest University

May 2025 – Present

Winston-Salem, North Carolina

- Analyzed aerial imagery datasets using computer vision and deep learning models to detect and map tree distributions across complex environments
- Processed and structured UAV imagery datasets into labeled training data using Roboflow, enabling efficient model training across 1200+ image samples
- Applied Python and PyTorch for data preprocessing and model evaluation using metrics such as precision and recall
- Collaborated with interdisciplinary researchers to design experiments and communicate quantitative findings through technical presentations

### Data and Machine Learning Intern

The Clearing House

May 2024 – August 2024

New York, New York

- Designed and deployed a machine learning pipeline on AWS SageMaker to analyze financial transaction data and forecast weekly pre-funding requirements for banks processing over 90% of U.S. wire transactions
- Engineered an end-to-end data pipeline using Python, Pandas, Jupyter Notebook, and Amazon S3 to process and analyze one year of CHIPS financial transaction data
- Performed data cleaning, feature engineering, and model evaluation to improve prediction accuracy, achieving over 85% forecasting accuracy
- Presented data-driven insights and model results to 50+ stakeholders including executives and senior leadership

### Project Management Intern

Atlantic General Construction

May 2023 – August 2023

New York, New York

- Coordinated project workflows and tracked operational data to ensure construction projects remained on schedule and aligned with client requirements
- Analyzed operational issues to identify root causes and resolve project blockers, improving workflow efficiency

## PROJECTS

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### Cancer Incidence and Socioeconomic Data Analysis

Wake Forest University

Winston-Salem, NC

- Analyzed public health datasets to examine correlations between cancer incidence rates and median household income across geographic regions
- Performed exploratory data analysis using Python (Pandas, NumPy) to clean, merge, and analyze socioeconomic and health datasets
- Built data visualizations using Matplotlib to identify trends and relationships between income levels and cancer incidence rates

### Developer Portfolio Website | [marioauqui.com](http://marioauqui.com)

Wake Forest University

Winston-Salem, NC

- Built a responsive portfolio website using React, Next.js, TypeScript, and Tailwind CSS to showcase data analysis projects, machine learning research, and technical work
- Developed reusable UI components and structured layouts to present datasets, visualizations, and analytical findings in a clear and organized format