



# RUPERTO A. MARTINEZ

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<https://github.com/RupertoM>

## EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC

August 2020-May 2024

Bachelor of Science, Computer Science; Applied Sciences and Engineering Minor

- GPA 3.64

## HONORS AND AWARDS

- James M. Johnston Academic Scholar
- HackNC 2022 Winner
- Publicis Sapient Intern of the Month
- Azure Data Scientist Associate Certification

## SKILLS

- **Programming Languages:** Python, Java, MATLAB, HTML5, CSS, JavaScript, TypeScript
- **Frameworks:** Spring Boot, Flask, Angular, React, NextJS, Tailwind, Simulink, Express, MUI
- **Libraries:** NodeJS, NumPy, Pandas, Matplotlib, SciPy, Pygame
- **Development Tools:** Docker, GitHub, GitHub Actions, JIRA, VS Code, IntelliJ, Vim, Linux/CLI
- **Database Technologies:** PostgreSQL, MySQL, NoSQL, MongoDB, SQLAlchemy, SQLite
- **Cloud Technologies:** Google Cloud, Google Kubernetes, Amazon Web Services, Azure
- **Knowledge Areas:** Computer Vision, Machine Learning, Artificial Intelligence, Image Processing
- **Languages:** English (Fluent), Spanish (Fluent), Russian (Elementary)

## WORK EXPERIENCE

Xtillion – San Juan, PR (Associate Software Engineer)

July 2024 – Present

Python, Azure, AWS, Computer Vision, Machine Learning, React, NextJS, TypeScript, Express, NodeJS, PostgreSQL

- Led machine learning and artificial intelligence initiatives within client projects, servicing in client training, integration sessions, and executive presentations
- Developed and implemented computer vision solutions including angle recognition models and inspection applications, directly contributing to new business acquisition
- Designed and implemented enterprise-level system architecture including RESTful APIs, database schemas, and business logic layers
- Achieved Azure Data Scientist Associate certification, gaining expertise in cloud-based machine learning solutions
- Fostered company-wide technical growth through conducting lunch-and-learn sessions on computer vision and knowledge-sharing initiatives

Publicis Sapient – Atlanta, GA (Software Engineering Intern)

May 2023 – August 2023

Java, Spring Boot, NextJS, JavaScript, React, Kroger APIs, Docker, GitHub, MongoDB, GKE, VertexAI, GCP

- Developed full stack generative AI advertising platform for Kroger-Albertson's client engagement
- Led cloud engineering initiatives as the sole cloud engineer while maintaining full stack development responsibilities
- Implemented VertexAI integration, Java backend services, and NextJS frontend components through CI/CD pipeline
- Orchestrated deployment infrastructure and optimized associated cloud costs through Google Kubernetes Engine
- Collaborated effectively in agile environment utilizing JIRA and Confluence for project management
- Created a product demonstration showcasing platform capabilities and deliverable final product
- Silent demo of the final product: [https://youtu.be/XccC9FAWJ\\_8?si=RkFpff7bxzIBxJgM](https://youtu.be/XccC9FAWJ_8?si=RkFpff7bxzIBxJgM)

Empowr Volleyball – Cary, NC (Boys 18 - South - Head Coach)

October 2023 – May 2024

- Led and mentored competitive team of 18-year-old athletes, focusing on both athletic and personal development
- Managed tournament logistics and team operations across multiple east coast competitions
- Developed and executed comprehensive practice plans focusing on individual skill development and team strategy
- Built strong team culture through leadership initiatives and community-building activities

## SWE PROJECTS

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### **rupertomartinez.com**

*Personal Project (NextJS, React, TailwindCSS, HTML5, CSS, JavaScript, MUI)*

- Developed and maintained personal portfolio website showcasing professional experience and technical projects
- Implemented responsive design and modern component architecture using Next.js and React
- Established automated deployment pipeline enabling continuous weekly updates and feature additions
- Engineered mobile-first design principles utilizing TailwindCSS and Material-UI components
- Demonstrated proficiency in modern web development practices and UI/UX design principles

### **Workshop Portal**

Demo: <https://www.youtube.com/watch?v=7MNOm3BVu8>

*Team Project (HTML5, CSS, Angular, JavaScript, Python, Flask, SQL, SQLAlchemy, OpenShift)*

- Architected and deployed full stack workshop management application within an agile team environment
- Led frontend development utilizing Angular framework while supporting backend API development
- Implemented secure deployment pipeline through UNC's Carolina Cloud Apps on Red Hat OpenShift
- Designed and integrated SQLAlchemy database models and REST APIs for efficient data management
- Presented in a special topics course for the opportunity to have the web app used and renovated by the university.