RUPERTO A. MARTINEZ

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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 3.62

HONORS AND AWARDS

- James M. Johnston Academic Scholar
- HackNC 2022 Winner
- Honors Carolina Preadmit
- Publicis Sapient Intern of the Month
- UNC Kenan-Flagler School of Business Preadmit
- Department of Biomedical Engineering Admit

SKILLS

- **Programming Languages:** Python, Java, C, C++, MATLAB, HTML5, CSS, JavaScript, TypeScript
- **Frameworks:** Spring Boot, Flask, Angular, React, NextJS, Tailwind, Simulink
- **Libraries:** NodeJS, NumPy, Pandas, Matplotlib, SciPy, Pygame, Jackson, JUnit, Apache
- **Development Tools:** Docker, GitHub, GitHub Actions, JIRA, VS Code, IntelliJ, Vim, Linux/CLI
- **Database Technologies:** MySQL, NoSQL, MongoDB, SQLAlchemy, SQLite
- **Cloud Technologies:** Google Cloud Platform, Google Kubernetes Engine, Amazon Web Services
- **Languages:** Spanish (Fluent), Russian (Elementary)

WORK EXPERIENCE

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
- Full stack generative AI advertising platform web application with real-world client, Kroger-Albertson's.
- Designated full stack developer and sole cloud engineer.
- Worked with VertexAI, Java models, services, and controllers, NextJS components, and the CI/CD pipeline managing the cost and act of deployment.
- Worked in an agile team working with product managers through JIRA and Confluence.
- Silent demo of the final product: https://youtu.be/XccC9FAWJ_8?si=RkFpff7bxzIBxJgM

Empowr Volleyball – Cary, NC (Boys 18 - South - Head Coach*)*   October 2023 – Present
- Coach and mentor, a dynamic group of 18-year-old high school boys in athleticism and life.
- Travel with and execute logistics in tournaments across the east coast adapting to situations.
- Lead and manage all aspects of practice to aid in individual development, teamwork, and gameplay.
- Foster a strong bond and community between the team and the coaching staff as well as the kids themselves.

CS AWARDS

HackNC 2022 WINNER (BEST GAME) – Chapel Hill, NC   November 5, 2022
(https://github.com/RupertoM/HackNC2022 + https://devpost.com/software/learn-to-fly)
- Worked in a small three-person team to develop a Pygame called "Learn to Fly."
- Developed in Python to establish necessary game designs and functionalities.
- Self-taught the Pygame library and created the game in less than 24 hours**.**
- Created, organized, structured, maintained, and managed the GitHub repository.

COURSE EXPERIENCE

Data Structures and Analysis, Discrete Mathematics, Linear Algebra for Applications, Design and Creating, Introduction to Robotics, Systems Fundamentals, Models of Languages, Introduction to Probability, Software Engineering, Scientific Programming, Structuring and Organizing Code, Computer Organization, Algorithms and Analysis, Multivariable Calculus, Mechanics and Relativity, Electromagnetism and Quanta, Files and Databases, Systems and Controllers, Modern Web Development, Exploring Engineering

CS PROJECTS

rupertomartinez.com
Personal Project (NextJS, React, TailwindCSS, HTML5, CSS, JavaScript, MUI)
- Portfolio website with additional facts about myself
- Dynamic pages with cutting edge technologies
- Continuous updates weekly as of October 2023
- Responsive design with mobile compatibility
- Personal and creative style choices

Financial Analytics Project   Link: https://github.com/RupertoM/financial_analysis_project
Individual Project (Python, Flask, Pandas, MySQL, SQLAlchemy, AWS, HTML5, JavaScript)
- Over course of three days created an analytic tool that would ingest, match, conform, analyze, and present data.
- Implemented a MVC structure for the project when analyzing data.
- Self-taught the use of an AWS RDS and SQLAlchemy.

Workshop Portal   Demo: https://www.youtube.com/watch?v=7MNOnm3BVu8
Team Project (HTML5, CSS, Angular, JavaScript, Python, Flask, SQL, SQLAlchemy, OpenShift)
- Created, tested, and deployed a full stack workshop portal web application within the course of a semester.
- Worked in a team of four that was split two and two into frontend and backend.
- Focused primarily on the frontend with one other pair programmer but aided in the backend when needed.
- Handled deployment and secrets to UNCs *Carolina Cloud Apps* powered by Red Hat's Open Shift.
- Presented in a special topics course for the opportunity to have the web app used and renovated by the university.

MVC Akari Light Up Game   Link: https://github.com/RupertoM/COMP301_Akari_Game
Individual Project (Java, JavaFX)
- Created a game with the use of a GUI implementation of the JavaFX UI library.
- Problem solved the several components of a Model View Controller implementation.
- Implemented an MVC strategy in which the controller managed all information and notifications to both the model and view acting as a bridge between the two.
- Self-taught use of the JavaFX Library as well as the intricacies of the MVC strategy in less than a week.

Rock Paper Scissors Online Game   Link: https://reactrps.netlify.app
Personal Project (JavaScript, React, HTML5, CSS)
- Developed an interactive and fun single player game for entertainment.
- Styled, personalized, and planned the design of the game.
- Implemented the game logic using only vanilla JavaScript and React components.
- Made the site responsive and available among several platforms including mobile devices.

Real Time Currency Converter   Link: https://moneyconversion.netlify.app
Personal Project (JavaScript, React, HTML5, CSS, REST APIs)
- Created a practical and useful web application that allows users to figure out the value of their currency.
- Styled to be responsive, quick, and intuitive allows user to have real time currency value data on several devices.
- Uses currency exchange APIs to gather data on current currency values.

UNC Athletics Website   Link: https://rupertom.github.io/COMP126-Website/
Team Project (HTML5 & CSS)
- Created a responsive and mobile friendly website using HTML5 and CSS with small exposure and use of JavaScript.
- Developed and executed an idea for creation of the website with a small team within a class.
- Participated in the process of creating and testing the website for compatibility between several components created by different members of the group.
- Lead the organization and delegation of responsibilities within the group.