DANIEL WANG

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EDUCATION

The University of North Carolina at Chapel Hill Aug. 2023 - Present
Bachelor of Science Computer Science, Bachelor of Science Data Science, Minor in Exercise and Sports Science GPA: 3.90/4.00
Relevant Coursework: Data Structures, System Fundamentals, Foundations of Programming, Discrete Mathematics, Multivariable Calculus, Linear Algebra, Intro to Data Science, Communication for Data Scientists
Honors & Awards: Honors Carolina Scholar (Awarded to 10% of students), Dean's List, Top 15 Club Tennis Player

TECHNICAL SKILLS

Programming Languages: Python, Java, HTML, CSS, Javascript, R, SQL, Swift, C
Frameworks and Libraries: Pandas, Biopython, scikit-learn, PyTorch, NumPy, Seaborn, Matplotlib, SwiftUI, React
Developer Tools: AWS Cloud, Git, GitHub, VS Code, Xcode, Tableau, Docker, Vim, Node.js

EXPERIENCE

Data Science Intern Sept. 2024 - Present
Epic Hire *Remote*

- Developing a resume parsing algorithm using NLP techniques, resulting in faster and more accurate candidate identification.
- Implementing machine learning models to enhance Epic Hire's candidate matching and recruiter insights system.

iOS Apprentice Programmer Aug. 2024 - Present
App Team Carolina *Chapel Hill, NC*

- Learning and applying mobile development practices in Swift/SwiftUI for user design, debugging, and code optimization.
- Actively testing skills in iOS app development, team collaboration, and creation of functional solutions for real clients.

Undergraduate Research Assistant June 2024 - Aug. 2024
UNC at Chapel Hill Department of Biostatistics *Chapel Hill, NC*

- Examined genetic sequencing data and performed statistical regression tests to identify significant genetic patterns and trends in infected cells under Dr. Fei Zou.
- Employed R packages such as Seurat and xCell Analysis for advanced single-cell data analysis and visualization.

PROJECTS

Milwaukee Bucks Business Analytics Hackathon | ***Python, Pandas, matplotlib, Numpy*** February 2025

- Placed 2nd for developing a predictive analytics solution of fan purchasing behavior for newly introduced Buck's ticket plans.
- Normalized and standardized 44,000+ historical purchasing data with Python to ensure data consistency, and applied K-means clustering and PCA to segment fans with similar traits and buying patterns.
- Implemented Linear and Lasso Regression to pinpoint primary purchase drivers, and Random Forest for predictive insights.

Optimizing the Traveling Tourist Problem | ***Python, Folium, Streamlit, Pandas, API*** October 2024

- Awarded 1st place out of 53 teams in the 2024 Carolina Data Challenge for developing an innovative travel itinerary service that promotes small, local businesses and improves travel recommendations.
- Cleaned and analyzed 492,880 data points across 8 cities in the TourPedia API to identify underground locations with low reviews but high polarity scores.
- Built and deployed interactive maps using Folium and Streamlit, pinpointing 1000+ high-quality overlooked city locations.
- Implemented an optimized travel route algorithm that calculates the most efficient path based on user preferences, and factors such as travel windows, starting locations, and variance statistics.

iMarket Product App | ***Swift, SwiftUI, REST APIs*** Aug. 2024 - Sept. 2024

- Developed a mock shopping IOS app with Swift that provides a scrollable, interactive cart for buying online products.
- Integrated the Products API to fetch and display dynamic items, and used SwiftUI to build a responsive and visually appealing user interface with adding items to cart and saving "favorited" products features.

Predicting High-Risk Wildfire Zones | ***Python, Tableau, scikit-learn*** October 2023

- Created a successful machine learning risk-assessment model utilizing Python and a gradient-boosting regressor in scikit-learn to identify the primary factors influencing wildfire progression in a dataset with 10,000+ values.
- Leveraged Tableau to create multiple impactful and visually compelling data visualizations such as treemaps, geographic bubblemaps, and t-test diagrams.