

Elias A. Capriles

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EDUCATION

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

08/2020 – 05/2024

- **B.S. Computer Science & B.S. Environmental Science Quantitative Energy System**

o Dean's List: Fall '21, Spring'22, Fall' 22

Related Courses: Foundations of Software Engineering, Computer Vision and Displays, Data Structures and Analysis, Introduction to Machine Learning, Algorithms and Analysis, Foundations of Programming, Systems Fundamentals, Computer Organization, Internet Protocols, Geographic Information System, Environmental Modeling, Energy Modeling.

Language Fluency: English, Spanish.

TECHNICAL SKILLS

Language Experience: Java, Python, TypeScript, JavaScript, CSS, React, C, Postgres, SQLAlchemy.

Tool Experience: Git, Angular, Scripting, OOP, REST, FastAPI, Unix, Node, AWS, Agile, Docker, HTTP, OpenShift, OpenCV, PyTorch, Matplotlib, QGIS, MS Office, Sklearn, Numpy, Google Colab, Pandas.

TECHNICAL PROJECTS

Final Project - Foundations of Software Engineering

- Implemented a web app for a check in service, and implemented permission infrastructures using FASTapi. The team followed an Agile development methodology.
- Stack included: Python, FASTAPI, HTML, React, CSS, Postgres, and SQL Alchemy.

SVM Forest Fire Classifier - [Notebook](#)

- Implement a SVM classifier to classify forest fires through the analysis of NDVI, and LSTM. Optimized the model to find the best parameters for the classifier using GridsearchCV.
 - Used Google Colab, Numpy, Sklearn, Pandas, and SkLearn.
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EXPERIENCE

CARVR Software Developer - UNC Computer Science - Chapel Hill, NC

01/2024 - 05/2024

- Develop projects, mostly based around video games, in Unity in order to showcase the different capabilities of XR.
- Worked closely with the hardware team to implement new tools into current projects

Rock Climbing Wall Manager – Carolina Recreation – Chapel Hill, NC

09/2023 – 05/2024

- Manage staff of over 20 people and lead the hiring of new staff.
- Ensure good communication that allows for staff to be prepared for any situation at the wall.

Asset Management Intern – Leyline Renewable Capital – Durham

01/2023 – 12/2023

- Rotational intern at a renewable energy firm during the spring semester. In the summer specialized in asset management and investment teams.
- Developed around ten financial models using Excel to keep better data tracking within company assets. Became a valuable member of the team, and earned an extension offer through the following Fall term.