Blaine Hill

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EDUCATION

The University of North Carolina at Chapel Hill — **August 2019 - Present**

Bachelor of Science in Computer Science, Bachelor of Science in Statistics
3.8 Cumulative GPA, May 2022 Expected Graduation

Relevant Coursework
Data Structures, Computer Organization, Intro to Data Science, Algorithms & Analysis, Intro to Machine Learning, Natural Language Processing with Vision and Robotics

SKILLS

Languages
Python, R, C++, C, Java, JavaScript, HTML, SQL

Tools / Frameworks
React, Angular, Vue, Node.js, Express.js, MySQL, MongoDB, Material-UI, Tailwind CSS, Boostrap, Keras, Tensorflow, pandas, NumPy, nltk, scikit-learn

EXPERIENCE

IQVIA — **May 2021 - August 2021**

Artificial Intelligence Intern, Durham NC
Designed an invoice parser to automate information extraction through modeling in Python.
Utilized the PyTesseract library for optical character recognition of invoices.
Implemented a graph convolutional neural network to incorporate both spatial and semantic information.

CommScope — **May 2020 - August 2020**

IT Enterprise Architecture Intern, Charlotte NC
Managed both Veritas Data Insight and the CommVault Activate vendor accounts.
Evaluated several product proof of concepts for data visibility, classification, and analysis.
Used Python to import and handle employee data as a part of an acquisition migration project.

PROJECTS

Arcane
Constructed a web application employing Spotify user data to generate personalized unique discographies.
Utilized the React, Express.js, and Node.js stacks as well as the Spotify Web API.
Programmed in JavaScript, HTML and styled with the Tailwind CSS and Bootstrap frameworks.

Kaggle Titanic Prediction Models
Created a random forest model to predict whether a passenger survived or not.
Used bagged decision tree imputation to allow for more accurate data.
Created a Support Vector Machine with a Linear Kernel model to compare accuracy and Kappa.
Written in R, utilizing the caret package for fluidity.

Non-Profit Roster Application
Designed a roster application for childcare to showcase the MongoDB, Express.js, React, and Node.js full stack.
Styled with the Material-UI and Boostrap frameworks and programmed in JavaScript, HTML.

RESEARCH

Active Feature Acquisition Modeling and Analytics — **August 2021 - Present**

Dr. Junier Oliva, Department of Computer Science, UNC-CH
Currently designing both Active Feature Acquiring surrogate models to optimize decision policies and corresponding analytics to examine the features throughout training.

HONORS / AWARDS

3rd Place 2019 Pokemon Trading Card Game World Championship — **August 2019**

Was invited to compete after the 2018-2019 tournament circuit.
Finished as the best placing American in the 2019 season.