

Anis Chihoub

609-647-7851 | anis.chihoub@gmail.com | github.com/achihoub2023 | <https://achihoub2023.github.io/>

EDUCATION

Rutgers University - New Brunswick

BS/MS in Electrical Engineering and Computer Science (Honors), GPA: 3.9

May 2024

New Brunswick, NJ

EXPERIENCE

Instructional Assistant

July 2020 – Present

Rutgers University, New Brunswick

New Brunswick, NJ

- Served as a Learning Assistant for Analytical Physics 2A and Introduction to Computer Science, courses with over five hundred students each.
- Aided over 100+ students between eight recitations by leading interactive sessions to improve student learning.
- Collaborated with course staff to design activities to improve student performance and grades by as much as 50 %.

Undergraduate Research Assistant

August 2020 – Present

Rutgers University, New Brunswick

New Brunswick, NJ

- Researched the applications of Differential Privacy to Machine Learning with Prof. Anand Sarwate.
- Wrote Python Code to develop a differentially private KNN algorithm for image classification using principles from Probability and Linear Algebra to achieve over 90 percent accuracy.
- Implemented differentially private algorithms to generate private heat maps and visualize MRI data containing over 1000+ data points total.

Student Intern

July 2019 - August 2019

Mercer County Administration

Trenton, NJ

- Collaborated alongside a team of five Designers/Traffic Engineers to design ramps in Robbinsville, NJ that were compliant to ADA standards.
- Visited sites to direct two teams of construction workers on the construction of ramps in Pennington.
- Applied Autocad and other surveying technologies such as GIS to create accurate maps of locations and survey traffic in two locations.

PROJECTS

J.E.D.I - Join, Educate Discover, Invest | ReactJs, NodeJs, HTML, Python, Flask

January 2022 – Present

- Built a webapp using React and Flask with a group of eight people to provide information to investors; later presented work at school wide symposium.
- Created a RESTful API to query thousands of google search results and determine relevant articles for a stock.
- Trained machine learning algorithms in python, such as ARIMA and the PROPHET model, to forecast the growth of stocks with 92 percent accuracy.

Data Science Website | Python, Flask, SQLite, Tensorflow, HTML, CSS

June 2021 – Present

- Created a full-stack web application using Flask, HTML, and CSS to showcase multiple data science projects.
- Allowed users to query data from a housing dataset with 400+ entries using SQLite and showcase results on the web page.
- Employed TensorFlow to create image recognition models with over 95 accuracy to identify user uploaded images.

Medieval Discord Bot | JavaScript, Discord.js, Tensorflow, Node.js

July 2020 – Present

- Built a medieval themed discord bot with Node.js and Discord.js to run a private server.
- Trained a neural network using TensorFlow to create medieval art from uploaded images using a dataset of over 1000 images.
- Developed JavaScript code to support commands ranging from posting random quotes to playing medieval games with the user.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL, SQLite), JavaScript, HTML/CSS, MATLAB, Bash, Verilog (learning)

Frameworks: Node.js, Flask, ReactJs, RESTful APIs

Developer Tools: Git, Windows, Linux, Docker, VS Code, IntelliJ, Pycharm, GitHub, CI/CD Pipelines, Postman

Libraries and Other: Pytorch, Pandas, Numpy, Matplotlib, Tensorflow, SKlearn, Microsoft Office, Excel, Agile, Tableau, JSON

Honors: Tau Beta Pi, Engineering Honors Academy, Eta Kappa Nu, JJ Slade Scholar