Nicole Avila

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EDUCATION

The University of Chicago, Chicago, IL — Expected June 2023

B.S. in Computer Science and B.A. in Media Arts and Design, GPA: 3.66/4.00

Related Courses: Computer Science I & II (Data Structures & Algorithms), Computer Systems, Data Science II, Software Development, Human Computer Interaction, Database Systems, Computer Security, Theory of Algorithms

Technical Skills: Python, SQL, HTML/CSS, Javascript, C#, Java, Scala

Honors/Awards: Dean's List (2021-2022), Odyssey Scholar, and Grace Hopper Conference 2021 Google Scholarship

WORK EXPERIENCE

LinkedIn — June 2022 - September 2022

Software Engineering Intern — Sunnyvale, CA (Remote)

- Computed statistical metrics through the data pipeline using ***Scala*** and ***Spark***, storing data in ***Hadoop***.
- Created an API service to capture the engagement and demographics metrics data from ***Hadoop*** and sent it to the frontend using ***Python*** and ***SQL*** queries.
- Visualized the generated metrics using ***Pandas*** and presented the insights to LinkedIn's Data Organization.

Center for Data and Computing, University of Chicago — June 2021 - August 2021

Data Science Intern — Chicago, IL (Remote)

- Contributed to 2 research projects: first is audio activity recognition; second is AWS spot market prediction.
- Investigated how different ***Machine Learning*** algorithms and models can be used to perform activity recognition given audio as input.
- Classified audio files using ***Python*** and ***Pandas*** to input in ***Machine Learning*** algorithms.
- Visualized and analyzed data using ***Python*** and ***Pandas*** to predict how frequently changes occur, how big changes in AWS spot prices are, and the impact they have on consumers.

Tiburon Resources — February 2021 - May 2021

Software Developer Intern — Houston, TX (Remote)

- Implemented a ***Python*** API and deployed it using **Amazon Web Services**.
- Developed and modified algorithms to collect online energy information from utility companies in CA and TX.
- Processed and visualized data using ***Jupyter*** and established Python libraries such as ***Pandas*** and ***Matplotlib***.

Fermi National Accelerator Laboratory — June 2020 - September 2020

Deep Underground Neutrino Experiment (DUNE) Data Management Intern — Batavia, IL (Remote)

- Analyzed and visualized DUNE data by producing a data visualization dashboard with 11 pie charts and tables through ***Grafana*** and ***Kibana***. Documented results in a 4 page report.
- Developed ***Python*** and ***Rucio*** scripts sent to ***ElasticSearch*** via ***Kafka*** scripts to know the amount, type, and location of data in the DUNE Data Management database.
- Presented the data usage within Rucio scope and containers by country to the DUNE team.

PROJECTS

Google Software Product Sprint — May 2021 - August 2021

Participant — Mountain View, CA (Remote)

- Collaborated with a team to design and implement a full-stack web application called What Do You Think, using ***Java***, ***Javascript,*** and ***HTML/CSS*** over the course of 10 weeks, leveraging various ***Google Platform API's***.
- Created a local storage system using ***Javascript*** to save and display player score and average.
- Built a personal portfolio with a user messaging screening system by utilizing Google's Sentiment Analysis API.

EXTRACURRICULAR ACTIVITIES

Grader For Computer Science I — October 2022 -December 2022

- Graded assignments weekly for a class of 367 students.

Maroon Mentor — October 2021 - Present

Uncommon Hacks Hackathon — February 2020, 2021