Adithya Solai

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EDUCATION

University of Maryland - College Park, MD

Bachelor of Science, Computer Science

Cumulative GPA: 3.938 / 4.0

Expected Grad: Spring 2022

TECHNICAL SKILLS

Languages: Python, Java, SQL, HTML/CSS, R

PROFESSIONAL EXPERIENCE

Seattle, WA Amazon

Software Development Engineer Intern

June 2021 – August 2021 Chicago, IL

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January 2021 - April 2021

Software Engineer Intern 605 (Data Analytics Firm for TV Ad Measurement)

New York, NY

Junior Data Analyst

May 2020 - August 2020 Utilized Databricks' PySpark/SparkSQL to optimize SQL queries that operate on a data pipeline of 5+ vendors and billions of rows of data on a daily basis to reduce Spark cluster costs and save future development time.

• Built Tableau dashboards to deliver daily reports with 50+ metrics that visualize the flow and accuracy of data.

Data Solutions Intern June 2019 – August 2019

Regression Analysis Engine: Developed a script that accurately compares 605's live algorithms with those in development by randomizing and parameterizing 20+ possible user fields to generate 10+ million input combinations.

TEACHING EXPERIENCE

University of Maryland College Park, MD

Teaching Assistant (BUDT 758B: Big Data & Artificial Intelligence for Business)

August 2020 – Present

Guiding 120 M.S. in Information Science students on Deep Learning concepts and PyTorch coding assignments.

Self-Employed Princeton, NJ

Private Chess Tutor August 2016 – August 2019

• Coached 50+ children to become US Chess Federation-ranked players and medalists at dozens of tournaments.

Taught 100+ lessons to hundreds of students at various chess academies (Hub for Learning) and volunteer groups.

UMD International Economics and Finance Society (IEFS) – VP of Content

December 2019 – Present

- Creating an educational, data science-oriented branch of IEFS to help members break into quantitative finance roles.
- Lead a committee of 4 researchers in developing and presenting professional slide decks and case studies to 70+ club members on topics such as value investing, cryptocurrencies/blockchain, and the macroeconomics of political policy.
- Spearheading IEFS Digest as Chief Editor & Writer to publish articles on topics like market technical analysis, oil futures, recession indicators, etc. (medium.com/umd-iefs-online-content) (10 articles already published.)

Medium - Towards Data Science

Remote

Writer July 2020 – Present Publishing educational data science articles in the premier publication (440k+ followers) for data science discourse.

Wrote a blog series (100+ likes) on Reinforcement Learning for AI newcomers. (adithyasolai.medium.com)

Plainsboro Public Library Junior Chess Club

Plainsboro, NJ

President & Volunteer

February 2016 - March 2018

• Developed and taught chess lessons for 40+ beginners, novice, and advanced students every week.

Plainsboro Public Library Junior Math Club

Plainsboro, NJ

Founder, President, & Volunteer

January 2017 – August 2017

• Constructed math lessons and worksheets for 20+ students in grades 4-6 to explore advanced mathematics.

PERSONAL PROJECTS

Monte Carlo Blackjack – Python (Pandas/NumPy/OpenAI Gym/Matplotlib)

- Designed a policy-based, stochastic Reinforcement Learning (RL) algorithm that uses the First-Visit Monte Carlo Method and a Blackjack environment built from scratch in OpenAI Gym to maximize Blackjack returns.
- Reduced casino edge from 20% to 4% by training an AI agent with my RL algorithm through 1 million epochs.

Song Lyrics Analysis Script – Java

Analyzed 8 lyricism metrics in thousands of lyrics to investigate the lyrical creativity of 3 hip-hop artists.

NBA Analytics – Python (Pandas/BeautifulSoup)

• Scraped season stats for 400+ NBA players using BeautifulSoup. Used Pandas to clean 30+ rows and explore data.

AWARDS/HONORS: ACT: 35 / 36, SAT: 1500 / 1600, UMD CMNS Dean's List x 3