Arjun S. Iyer

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EDUCATION

The University of Wisconsin-Madison | Bachelor of Science in Computer Science, Statistics, Mathematics — May 2023

- GPA: 3.721/4.0
- *Senior Consultant*, Google DSC UW-Madison; *Ambassador*, International REACH Program by UW-Madison

Key Accomplishments:

- Organized a coding competition (Hackathon) for **approx. 200 students** in collaboration with **3 student clubs**.
- **4** time Dean's list recipient.

SKILLS

Programming Languages: Python, SQL, Bash, C, C++, R, TypeScript, Java
Technologies and Methods: Spark, PrestoDB, Docker, Airflow, Git, Node.js, Angular, React, MongoDB, Agile, ETL Process
Specific Python Packages: Pandas, NumPy, SciPy, Matplotlib, plotly.express, Scikit-learn, TensorFlow

EXPERIENCE

Software Engineer — September 2022 - Present
UW Capstone Course | Remote

- Working on a fixed semester-long project with **ShopBop**, an **Amazon** subsidiary.
- Working with React, Node.js, MongoDB to build a Web application with the goal of researching new methodologies beneficial to the business.

Data Science Intern — June 2022 - August 2022
Tesla | Palo Alto, CA

- Applied modern statistical frameworks to support Design for Reliability and associated corrective actions.
- Implemented **Machine learning and Time-series modeling** using **Python** to create/interpret/validate numeric models of fielded and in-test products.
- Worked closely with cross-functional teams acting as a **lead** on multiple high-impact **Big Data Analytics** projects.
- Used **PySpark** and **PrestoDB** for effective querying and organization of Big Data.
- Built data pipelines using **Python** and **Airflow**, and used **Docker** among other tools to build applications for the team.

Undergraduate Researcher (Autonomous Driving) — October 2021 - May 2022
University of Wisconsin-Madison | Madison, WI

- Studied the **YOLO framework**, assisted in running simulations, data collection, and developing new methodologies for the autonomous driving research team using the **CARLA API** in **Python**.

Software Engineer Intern — June 2021 - September 2021
Apollo Finvest | Remote

- Used **Angular, TypeScript, HTML, and CSS** to implement an analytics dashboard (primary project).
- Used **SQL and Python for** smaller tasks such as writing scripts for data pipelining, and querying **DynamoDB**.

PROJECTS

Neural Network from Scratch (In progress) — Personal Project
Objective: Implement a fully functional neural network in **C** (no external packages) to understand the use of **Linear Algebra** as a concept for creating a **Deep Learning** tool.

Analytics Dashboard — Apollo Finvest
Used **Angular, TypeScript, HTML, and CSS** to implement a fully functional analytics dashboard for internal use (Front-end + Back-end elements).

Pneumonia Detector — Personal Project
Formulated a **TensorFlow** model in a **Python** notebook that detects the presence of pneumonia in a patient, using a chest X-ray as input with **93%** accuracy.