

Arunachala Nutalapati

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Summary: Data analyst and software developer with a Bachelor of Science in Physics. Experienced in dealing with data analytics, data engineering, and QA testing. Continuing to learn and become more proficient with full-stack development.

Education

Bachelor of Science in Physics

Magna Cum Laude with College Honors, GPA: 3.82

University of Illinois at Chicago

Work Experience

Lab Researcher

University of Illinois at Chicago

May 2018 – June 2019

Chicago, IL

- Designed and performed experiments on behavior of gold nanoparticles in Graphene Liquid Cells.
- Used Microsoft Excel and Python for entry, cleaning, and transformation of cursory data. Used advanced statistical methods to analyze data sets using computer vision software, Python (PANDAS), and Matlab.
- Created and maintained PostgreSQL and MySQL databases for research data. Created templates for SQL queries for other researchers.

Data Analyst

ScribeAmerica

Jan. 2022 – May 2023

Aurora, IL

- Measured key performance based metrics and successfully implemented strategies for improvement. Prepared and analyzed datasets using Python.
- Responsible for maintaining company-wide operational dashboards using SQL query.
- Utilized Microsoft PowerBI for creating dashboards with multi-KPI visualizations, multi-variable linear regression models, and other custom visualizations to track medical scribe online training and on-site clinic performance.

QA Analyst/Data Engineer

SSM HealthCare

May 2023 – June 2024

St. Louis, MO

- Prepared a test plan for the testing process of Insurance Applications. Prepared User Stories as per business functional requirements, and hundreds of test cases in Xray, a Jira native test management app, for manual testing.
- Validated backend database integrity, UI-DB mapping by writing and executing SQL Queries. Designed and conducted structural, functional and non-functional database testing.
- Helped automate integral test cases using Selenium package in Python for backend database testing.

Key Skills

Technical Skills:

- **Programming Languages** - Very proficient in Python (PANDAS, Selenium, Matplotlib, NumPy, and other packages). Proficient in SQL (PostgreSQL, MySQL). Familiarity with JavaScript/TypeScript along with HTML/CSS. Have used JS frameworks such as React. Have used Node.js to create flexible and scalable backends. Proficient in using Git.
- **Statistical Analysis** - Experienced in collecting, preparing, cleaning and analyzing big datasets using Python (PANDAS) and SQL.
- **Data Visualization/Software** - Proficient with Microsoft Stack/PowerBI, Tableau, Excel, and Office. Have experience with using PowerBI for data visualization, dashboard creation, and analysis.
- **Software Development** - Experienced working within Agile software development/Scrum.
- **Healthcare Data Background** - Experienced in handling and entering sensitive healthcare data in an ethical fashion and under industry policies.
- **Hardware and Software Management and Configuration** - Proficient in PC hardware. Familiar with Windows OS, Mac OS, and Linux (Ubuntu).

Soft skills:

- **Team Collaboration** - Worked well in large and small research groups and data teams.
- **Strong Communication** - Ability to simplify complex topics and patterns to a wider audience.
- **Critical thinking** - Science and programming background with a adaptable and critical mindset.

Awards and Achievements

UIC LASURI Scholarship	University of Illinois at Chicago
UIC Impact Scholar 2019	University of Illinois at Chicago