

# Alekhya Donthireddy

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## EDUCATION:

### University of Texas at Dallas

#### B.S Computer Science

August 2021 - December 2024

GPA: 3.96

**Honors:** Dean's List (Fall 2021, Spring 2022, Fall 2022, Fall 2023), Academic Excellence Scholarship (Spring 2022, Fall 2022)

**Relevant Coursework:** Linear Algebra, CS 2 (Java), Discrete Math 2, Statistics in CS, Data Structures, Software Engineering, Operating Systems, Database Management Systems, Advanced Algorithms, Intro to Machine Learning, CS Design Capstone

## TECHNICAL SKILLS:

**Programming Languages:** HTML, CSS, C/C++, Java, JavaScript (React, React Native), Python, R, SQL

**Environments/Frameworks:** MS Visual Studio, Figma, Git, Matplotlib, Pandas, Jupyter Notebooks

**Business Tools:** Microsoft Office, G Suite, WordPress, MS Azure Databricks, PowerBI

## WORK EXPERIENCE:

### Engineering Summer Analyst | Goldman Sachs

June 2024 - August 2024

- ❖ Developed a full-stack workflow dashboard application, streamlining efficiency of fund accounting processes
- ❖ Designed and demoed wireframes with Figma to the fund engineering and accounting teams, receiving positive feedback
- ❖ Implemented backend services in Java and Spring Boot, optimizing API calls and performance
- ❖ Created a functional, user-friendly front end in React/TypeScript, improving workflow management speed and actions

### Digital Operations Intern | Helmerich & Payne

May 2023 - August 2023

- ❖ Created data visualization programs in Python and R to display and analyze anomalies/similarities of backouts for 30+ rigs
- ❖ Pulled 1 second rig data over 24-hour periods for 200+ tags from Azure Databricks using SQL queries
- ❖ Presented data analysis projects, drawn conclusions, and overall experience at end of internship

### Web Developer Intern | Allen Americans Professional Hockey

October 2022 - June 2023

- ❖ Launched 10+ new pages for the Allen Americans Red Lamp Foundation's website using WordPress's software
- ❖ Utilized Agile/Software Development Cycle methodologies while communicating and getting feedback from client

## PROJECTS:

### Drilling Performance Data Visualizer | Helmerich & Payne

May 2023 - August 2023

Skills: Python, SQL, Azure

- ❖ Implemented connection from Azure Databricks to display recorded data from oil rigs in 4 different regions
- ❖ Improved visualization rate from previous software by over 50% and allowed for file extraction of data pulled with SQL
- ❖ Applied several data visualization Python libraries to customize graphs and included features that enhanced usability

### IRC ChatBot | Academic

September 2022 - October 2022

Skills: Java, JSON

- ❖ Consumed two RESTful APIs (OpenWeatherMap and FruityVice), parsed JSON response using Java to display results in a user friendly, human-like text format, and employed Java Chatbot to enable user to text messages in real time using PircBot

## ORGANIZATIONS/LEADERSHIP:

### Director | Ladies in Technology Mentoring Program

October 2023 - present

- ❖ Lead an academic/career development program connecting freshmen mentees with upperclassmen mentors
- ❖ Hosted professional development workshop events for 60+ members

### Treasurer | Women Who Compute

December 2022 - May 2024

- ❖ Managed the organization's finances, ensuring budget adherence and proper allocation of resources