

## Aarij Atiq

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### EDUCATION

#### Vanderbilt University

Bachelor of Engineering in Electrical and Computer Engineering

Master of Engineering in Cyber Physical Systems

GPA: 3.84/4.0

**Selected Coursework:** Algorithm Design, Intermediate Software Design, Data Structures, Discrete Mathematics, Image Processing, Semiconductor Electronics, Digital Signal Processing, Analog Systems, Control Systems, Linear Algebra, Statistics, Differential Equations

**Skills and Technologies:** Git, Tableau, BigQuery, Entity .NET Framework, React, Angular, Node.js, NUnit, Material-UI, Docker, Google Cloud, Postman, JavaScript, VS Code, PyCharm, Pandas, NumPi, Eclipse

**Interests:** Linguistics, Cricket, Badminton, Chess, Sustainability, Cooking

### RELEVANT EXPERIENCE

#### Data Insights Analyst Intern

GoldenTree Asset Management

June 2024 – Aug 2024

New York City, NY

- Conducted feasibility study of **Omni Analytics** visualization platform by creating a project and running reliability, exception handling, and compatibility tests to advise on a **company-wide migration** from Tableau
- Created **4 interactive** social media data dashboards to track KPI like brand interaction and consumer sentiment to monitor brand heat and predict quarter earning using **Tableau**, influencing investment decisions of **over \$50MM**
- Provided earnings estimates using Machine Learning models such as ARIMA and Random-Forest Classification in Maiden Century to more than 3 teams of over 20 people to guide investment decisions of over **\$300M**
- Developed and **optimized SQL queries** in Google BigQuery to clean, sort, and transform 6 datasets, creating meaningful insights through effective data joins and **cutting warehouse call loads by 66%**

#### Full-Stack Development Intern

Field Force Inc

May 2023 – Aug 2023

Arlington, VA

- Developed a robust database in C# with **Entity Framework Core** for seamless CRUD operations for mobile tower modules
- Designed and implemented a comprehensive **token-based authentication** and authorization framework, securing REST API endpoints ensuring access control to the modules using JavaScript, NodeJS, Azure
- Conducted rigorous unit testing on **3 pre-existing modules** to improve on connectivity and minimize data leakage using **NUnit, MSTest, and Postman**

#### Undergraduate Teaching Assistant – Data Structures & Algorithms and Discrete Mathematics

Vanderbilt University Computer Science Department

Aug. 2023 – Present

Nashville, TN

- Guided 300+ students** through topics in discrete math and data structures , helping them with code review and CI
- Collaborated with **3+ professors** to develop grading scripts in Java and C++ for **>20 assignments** and exams and provide constructive feedback to students on submissions

#### Backend Developer and Project Lead

Vanderbilt Engineers without Borders

Aug 2022 – Present

Nashville, TN

- Led the development of a user-friendly, real-time **data visualization platform** to represent sensor data retrieved from off-site servers using AWS, Node.js, and React
- Collaborated with a cross-functional team to conceptualize, plan, and execute a **rainwater collection system**

#### Electrical Engineering Intern

Engineering Services Center, PCSIR Laboratories

July 2022 – Aug 2022

Lahore, Pakistan

- Collaborated with **6+ engineers** on a sustainability report outlining an efficient smart grid design and energy-saving strategies for a **68-acre facility**
- Contributed to a cross-functional team in the development of a cost-effective **5 KV solar inverter model**

### PROJECTS

#### SICA- Speech Impediment Correction App

May 2022 – Sept 2022

- Developed and designed SICA (Speech Impediment Correction App) for behavioral speech therapy using Natural Language Processing APIs with **96% accuracy** of phoneme recognition.
- Researched Behavioral Therapy techniques to design an adaptive curriculum that adjusts to users' level of speech impediments
- Ranked 1st/500 projects at Teknofest Turkey International Competition

#### Medilocate

Sept 2023- Dec 2023

- Developed a medication-finding app for students to recommend medications and nearby pharmacies based on their symptom descriptions using a **BERT gen- AI classification LLM for NLP** (Hackathon entry)
- Coded **RESTful API backend** using **Python, Typescript, Node.js**, implemented external API calls to check for medication interactions, frontend using **React**, utilizing **MongoDB** for data management