

## SAFIYA ATEEQ

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### EDUCATION

**Birla Institute of Technology & Science, Dubai**– GPA: **8.57**

Bachelor of Engineering in Computer Science

#### Relevant Coursework

Computer programming, Engineering graphics, Probability and statistics, Object oriented programming, Digital design, Logic in computer science, Discrete structures in computer science, Data structures and algorithms, Database systems, Microprocessor and interfacing, Computer architecture, Operating systems, Theory of computation, Design and analysis of algorithms, Computer networks, Compiler construction, Artificial intelligence, Neural network and fuzzy Logic, Derivatives and risk management, Data mining, and Optimization.

### EXPERIENCE

#### Techplement

*Front-End Developer (Intern)*

*Remote*

*May 2024 – June 2024*

- Developed web applications using ReactJS, HTML, CSS, and JavaScript.
- Created backend services and APIs with Node.js and Express.js.
- Enhanced user experience by optimizing web applications for speed and scalability.
- Ensured mobile-responsive and cross-browser compatible designs.
- Managed code repositories using Git for version control.
- Conducted comprehensive testing for application reliability and quality.
- Participated in Agile development processes.

#### Sentient Labs

*Robotics Software Engineering Intern*

*Dubai, UAE*

*February 2023 – July 2023*

- Analyzed and visualized sensor data, creating an interactive dashboard.
- Developed web applications using ReactJS and NextJS.
- Built sensor interfaces and integrated them into systems.
- Remotely controlled and monitored sensors through coding.
- Created secure and interactive applications using AWS.
- Implemented continuous improvement and optimization strategies.
- Conducted quality assurance and testing.

#### TechRobotix

*Technical Support Intern*

*Dubai, UAE*

*June 2021 – August 2021*

- Web development.
- Developed a chat-bot utilizing NLP (Natural Language Processing) and deep learning techniques.
- Contributed to projects for EXPO2020, gaining valuable experience in large-scale event management.
- Acquired a diverse range of skills through exposure to various departments of the company, including Digital Design, Animation, and Management.

### SKILLS & INTERESTS

- **Applications:** Microsoft Office, Power BI, MATLAB, AWS, Tableau
- **Operating Systems:** Linux, Windows, macOS, Ubuntu
- **Technical Skills:** Python, Java, SQL, C++, C, NextJS, ReactJS, NodeJS, AutoCad, Verilog, Data Science, HTML, CSS, JavaScript, TypeScript, AngularJS.
- **Domain:** Data Analysis, Web Development, Mobile App development, Software Development, IoT (Internet of Things), AI/ML (Artificial Intelligence/Machine Learning).
- **Languages:** English, Arabic (literacy), Urdu, Hindi

### PROJECTS

#### Recipe Finder

*July 2024*

- Developed a recipe finder website that lets user search for recipes based on their ingredients using technologies like HTML, CSS, JavaScript, ExpressJs and MongoDB for seamless integration.

#### Chat Application

*January 2024*

- Developed a real-time chat application using Android Studio, integrated with Firebase Authentication for user management and Firestore Database for seamless message storage and retrieval.

#### Instagram Clone

*October 2023*

- Developed a clone of the very famous social media app, Instagram, using MERN (MongoDB, Express.js, React.js and Node.js) technologies.

#### **HR Analysis Using PowerBi, Tableau, SQL and Excel**

*September 2023*

- Developed an analysis report on the data related to an organization's workforce using analytic tools such as PowerBI, Tableau, SQL and Excel.

#### **Sales Analysis and Forecasting using Power BI**

*May 2023*

- Developed a Power BI dashboard for SuperStores, analyzing 2 years of sales data and creating a sales forecast for the next 15 days

#### **Human Physical Activity Detection using Smartphone Data**

*September 2022 - December 2022*

- Developed a system to detect physical activity using smartphone sensor data, leveraging IoT and Data Mining concepts.

#### **Speech to Sign Language Translator**

*September 2022 - December 2022*

- Created a speech-to-sign language translator using Natural Language Processing techniques to bridge communication barriers.

#### **Sales Data Analysis**

*October 2022*

- Analyzed sales data over a three-year period using Python's pandas and matplotlib libraries to gain insights into company performance.

#### **Zoom App Clone**

*October 2022*

- Built a video chat application similar to Zoom, utilizing Node.js, HTML, CSS, and JavaScript to enable seamless virtual meetings.

#### **Snake Game**

*September 2022*

- Developed a classic Snake game using HTML, CSS, and JavaScript, challenging players to navigate a growing line without colliding.

#### **Amazon Web Scraper**

*September 2022*

- Implemented a web scraping tool using Python's BeautifulSoup, Selenium, and Webdriver to extract product details and prices from Amazon.

#### **Road Lane Line Detection**

*September 2022*

- Utilized Python and OpenCV to detect and track road lane lines from input images or video frames, applicable for autonomous driving.

#### **E-Commerce Website – Front end development**

*September 2022*

- Built the front-end development of an e-commerce website for a fashion brand, leveraging HTML, CSS, and JavaScript.

#### **Deep Reinforcement Learning in Medical Image Analysis**

*January 2022 - May 2022*

- Explored the application of deep reinforcement learning in medical imaging for improved accuracy and efficiency, using Python.

#### **Solving Influence Maximization Problem**

*January 2022 -*

*May 2022*

- Conducted research and compared algorithms to maximize influence in social networks, contributing to advancements in network analysis.

#### **Object Detection using YOLOv5**

*January 2022 - May 2022*

- Developed an object detection system using the YOLOv5 model and Python, enabling real-time object detection in various scenarios.

#### **Language based on the show “F.R.I.E.N.D.S”**

*January 2022 - May 2022*

- Designed and implemented a custom language compiler based on the popular TV show "F.R.I.E.N.D.S" using lex and yacc files.

#### **Black & white photos to color using autoencoders**

*November 2021*

- Implemented a convolutional neural network (CNN) based project utilizing autoencoders to transform black and white photos into color.

#### **KenKen Puzzle using CSP**

*October 2021*

- Created a challenging puzzle based on Sudoku, leveraging Constraint Satisfaction Problem (CSP) techniques using Python.

#### **Interactive Chatbot**

*August 2021*

- Developed an interactive chatbot utilizing NLP and deep learning to recommend movies based on user preferences, enhancing user engagement.

**Music Management System***April 2021- May 2021*

- Designed and implemented a database system using MySQL for efficient organization and management of music-related data.

**Hospital Management System***October 2020 - December2020*

- Developed a comprehensive hospital management system using Java, incorporating Object-Oriented Programming (OOP) principles and GUI.

**EXTRACURRICULAR ACTIVITIES**

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- Participated in Scaler Academy's "Make Your First Website" online workshop, June, 2020
- Participated in the BPDC's 3 month long ACM Coding boot camp conducted on campus, Dubai, 2019.
- Participated in the "Explore Engineering Workshop" organized by BITS Pilani Dubai Campus, 2018.
- Participated in 'AI for India' online workshop "Build a Face Recognition Application Using Python", 25th April 2021
- Participated in the API based programming course organized by Postman Feb -March 2022
- Active member of various university clubs such as Shades, ACM, Microsoft, reflections and MAD club.
- Completed a virtual internship as a Software Engineer in JP Morgan February 2024.
- Completed 70+ LeetCode problems to strengthen problem-solving and coding skills.