FARAH ABDI

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EDUCATION

The Ohio State University   Columbus, OH
Bachelors of Science in Computer Science & Engineering   *May 2028 (Expected)*
- **Cumulative GPA**: 3.9/4.0

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, HTML5, CSS3, SQL, TypeScript
Frameworks: React, React Native, Expo, Node.js, MongoDB, TailwindCSS, Flask, Express.js, Django
Libraries: TensorFlow, Pandas, NumPy, Matplotlib, SKlearn, Seaborn, PyTorch, Keras
Developer Tools: Docker, Visual Studio, PyCharm, IntelliJ, Git, VS Code, Figma, Postman, ChatGPT, AWS

EXPERIENCE

Software Engineer Intern | *FILLER INFO UNTIL INTERNSHIP IS COMPLETE*   May 2025 – August 2025
True Interpretation and Consultation Services LLC   *Columbus, OH*
- FILLER INFO - Internship Not Completed
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PROJECTS

Solar Power Output Predictor | *Python, Scikit-learn, XGBoost, LightGBM*   Feb 2025 – Apr 2025
- Engineered a full-stack machine learning pipeline to predict solar irradiance (**GHI**), processing **450,000+** rows of data.
- Automated data ingestion from 2+ APIs (NREL, OpenMeteo), merging, cleaning, feature engineering, outlier handling.
- Trained and evaluated **10+** regression models, achieving **91.3%** prediction accuracy within **2 STD** bands.
- Deployed robust error analysis using custom metrics, improving forecast reliability for **GHI** estimations by **25%**.

2K Scout | *React, TailwindCSS, Web-Scraping, Sqlite* | Live App   Nov 2024 – Dec 2024
- Built a fantasy basketball tool featuring **500**-player data across **5** positions for team-building.
- Integrated interactive UI elements, allowing users to add, remove, and undo actions with instant updates.
- Developed backend scraping scripts to extract and organize NBA 2K25 stats, automating **100%** of data updates.
- Optimized app, enabling seamless resets, intuitive player management, and responsive performance across all devices.

Pathfinding Visualizer | *Python, Git, Pygame*   Sep 2024 – Oct 2024
- Developed a pathfinding visualizer using Python and Pygame to showcase algorithms like A*, Dijkstra, and BFS.
- Built an interactive grid-type UI allowing users to place 50+ obstacles and observe real-time algorithm execution.
- Optimized visual rendering for smooth animations, achieving frame rates of 60 FPS during complex simulations.
- Versioned and managed code with Git, enabling 100% seamless collaboration and change tracking

Sparkx Chat | *JWT, React, Expo, MongoDB* | Live App   Jun 2024 – Sep 2024
- Developed cross-platform (React/Expo) chat app on MERN, supporting 2 platforms; reduced deployment time by 20%.
- Enabled <100ms real-time messaging with WebSockets (Socket.io), improving user engagement by 30%.
- Secured user data with 99.9% reliability using JWT authentication.
- Optimized React/Expo UI, achieving 30% faster load times and 25% smoother responsiveness.

LEADERSHIP

Arabic Teacher   May 2021 – July 2025
Masjid Ibn Taymiyah and Islamic Center   *Columbus, OH*
- Designed and taught Arabic language curriculum to students of varying ages, creating an engaging learning environment.
- Managed classroom activities, assessed student progress, and provided individualized support for up to 80 students total.
- Mentored and guided students in their learning path, promoting cultural understanding and communication skills.