AYUJ VERMA

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EDUCATION

The University of Texas at Austin, Austin, TX — May 2025
Bachelor of Science, Computer Science **(3.8/4.0)**
Relevant Coursework: Operating Systems, Computer Architecture, Data Structures & Algorithms, Discrete Mathematics
Bachelor of Science, Mathematics **(4.0/4.0)** — May 2025
Relevant Coursework: Applied Linear Algebra, Probability I, Scientific Computation in Numerical Analysis, Linear Algebra, Differential Equations, Multivariable Calculus

SKILLS

Technical/Computer Skills: Advanced in Java; Familiar with Python, C, React JS/Native, JavaScript, CSS, Firebase, Flask, Git, Linux
Languages: Conversational in Hindi; Advanced in Spanish
Certifications: Mark Cuban AI Bootcamp

EXPERIENCES

Texas Convergent, Austin, Texas
Software Engineer for Meals on Wheels — Aug 2023 - Present
- Implementing **React JS** features into **React Native** mobile app and streamlining the codebase
- Utilizing **Flask** and **Python** in the backend to handle food delivery requests and to manage the database

Texas Momentum, Austin, Texas
Software Engineer for Scraps Audio — Aug 2023 - Present
- Building out the front-end of the website directly with the startup's founders using **React JS**

Kanarys, Dallas, TX: — Jun 2021 - Aug 2021
Software Engineering Intern
- Web scraped data using Python's **Selenium**, cleaned it using Python's **pandas**
- Utilized **Jupyter Notebooks** and **Excel** to visualize data and present to clients
- Compiled data from hundreds of companies for the Metro Atlanta Chamber of Commerce
- Scraped through the EEO-1 reports of top companies for diversity statistics to put in company database

PROJECTS

Parrot: — Jan 2023 - May 2023
- Utilized **speech-to-text API** to record audio, analyze transcriptions, and provide live statistics
- Implemented backend with tree data structure in **Google Firebase** and used **React JS** for front end
- Worked with Dr. Emily Swanson from UT Austin to create the algorithm and weights for the reading score
- Tracked metrics over time including most commonly missed words, correct words per minute, and accuracy

Meal Match: — Mar 2023 - Present
- Helping university dining halls and local restaurants donate leftover food to homeless shelters and food pantries
- Using **React Native** for the front end and **Google Firebase** for data storage
- Idea won "Best Sustainable App" at Freetail Hackers Hack the Future Hackathon from over 50 teams

Mancala and Word Hunt Solvers: — May 2023
- Created a greedy algorithm that utilized **recursive backtracking** and **alpha-beta pruning trees** to play mancala
- Used a **trie**, **hashmaps**, and **recursive backtracking** to provide all possible words in an efficient manner

Relearn: — May 2021 - Nov 2021
- Generated sets of math problems from 20+ customizable topics using **Java**, **JavaFX**, and **CSS**
- Aligned to Dallas ISD's curriculum for students in grades 3-8 and received rave reviews from teachers
- Won 1st place in the Congressional App Challenge and presented to Congresswoman Eddie Bernice Johnson

PolyFighters: — Jun 2020 - Nov 2020
- Created a turn-based, two-dimensional, single-player strategy game made using **Java** and **JavaFX**
- Implemented map generation, pathfinding, and character movesets

HONORS AND AWARDS

- Citadel Correlation One Terminal Summer Invitational: Top 30 Team Globally — Aug 2023
- Freetail Hackers Hack the Future Hackathon: Best Sustainable App — Mar 2023
- UIL Computer Science State: 1st Place Team — May 2022
- UIL Mathematics State: 3rd Place Team — May 2022
- Congressional App Challenge: National Winner — Jan 2022
- AAPT PhysicsBowl: 3rd Place National/43rd Place International Team — May 2021