ARNAV MANGAL

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EDUCATION

- University of Wisconsin-Madison B.S. Computer Science, Class of 2024 | GPA: 3.89 | Dean's List x 2

- High School Diploma, Saratoga High School, Saratoga, California | GPA: 4.28/4.0

LANGUAGES

Javascript / Java / C / Python / HTML5 / CSS3 / SQL / Bash

TECHNOLOGIES

React / Node.JS / PostgreSQL / Linux / Git / Github / Firebase / Heroku / Bootstrap / Unity Game Dev Platform / Figma

SKILLS

Full Stack Web Development / Backend Software Engineering / Machine Learning / UI Design / Communication / Leadership

AWARDS

- Eagle Scout: Earned the highest rank of Eagle in Boy Scouts of America. As Leader of Troop Guides, led a team of 100 scouts.

- Gerald Zappelli Scholarship: Led high school's leadership team and student council for 4 years. Solo scholarship award for embodying school leadership values.

SOFTWARE ENGINEERING PROJECTS

- **Face Recognition Application (Summer 2022):** Using React, Node.JS, and PostgreSQL, created a full stack web application that authenticates users, completes face recognition analysis from inputted images, and stores the image entries' usage data in a relational database.

- **Speech 2 Text (Spring 2022):** Developed a web app that authenticates users, converts speech recordings to text, and stores each user's transcription in a Firebase NoSQL database. Technologies: Javascript, Firebase, HTML, CSS

- **Pathfinder (Spring 2022):** Using the Dijkstra's Shortest Path algorithm, helped build a Java app that calculates the shortest path between two cities. Users select an origin and destination, and receive the shortest distance in miles, along with a list of cities and highways required to pass.

- **Memory Tracker (Spring 2022):** Created a memory tracker program in C allowing users to allocate, free, and coalesce blocks of memory.

- **Show Searcher (Fall 2021):** Built a Java application allowing users to search through a database of shows by word within a title or by the year. Results can be filtered by streaming services and sorted by rating.

- **Restaurant Recommender (Spring 2021):** By web scraping geographical data and customer review sites, and mapping data with Folium, clustered the top 10 favorite cuisines in each neighborhood of Houston.

RELEVANT COURSEWORK

Full Stack Web Development, Object-Oriented Programming and Data Structures using Java, Advanced Data Structures, Intro to Computer Engineering, Intro to Computer Systems, Discrete Mathematics, Linear Algebra

CERTIFICATIONS

- Web Design and Development, University of Michigan (Fall 2021)

- IBM Data Science Professional Certification (Spring 2021)