

SAATHVIK DABBARA

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Education

The University of Texas at Austin

August 2023 – Present

Bachelor of Science in Computer Science, Minor in Business

Relevant Coursework:

*Principle of Computer Systems, Algorithms and Complexity, Cloud Computing, Software Engineering
Computer Organization and Architecture, Data Structures, Discrete Mathematics, Probability and Statistics,
and Matrices and Matrix Calculations*

Technical Skills

- **Languages:** Python, C, C++, Java, SQL, Shell, JavaScript, CSS, HTML, Javascript, LaTeX
- **Developer Tools:** Git, VS Code, Axios, Postman, Jupyter Notebooks
- **Technologies/Frameworks:** ReactJS, Node.js, Flask, Rest API, SQLAlchemy, Bootstrap, JWT, PyTorch/TensorFlow, OpenCV, YOLOv5
- **Databases:** SQLite
- **Concepts:** Software Development and Design, Github, Unit Testing, UI/UX, SLAM

Experience

Magikid Robotics Lab

October 2024 – Present

Lead Developer and Instructor

- Led development of robotics code for VEX AI competitions, focusing on advanced control systems and automation.
- Engineered a full-stack AI robotics solution by training a custom vision model, integrating LiDAR and depth cameras, and enabling bidirectional UART communication with a VEX V5 Brain via NVIDIA Jetson.
- Taught Python and C++ programming to high school students, mentoring them in foundational and advanced concepts.

Moneta Technologies LLC

February 2021 – August 2023

Founder/Manager

- Founded a blockchain-focused company to mine cryptocurrency using Linux systems.
- Managed day-to-day operations, including record-keeping and profitability analysis.

FINS of Cypress

August 2021 – May 2023

Swim Instructor and Customer Relations Representative

- Taught swimming techniques to children of all ages, adapting lessons to individual skill levels.
- Developed strong communication skills for effective interaction with children and their parents.

Projects

Finance Tracker

Nov 2024

- A full-stack web application designed to help users manage their personal finances effectively. It enables users to log in, track expenses, and view a detailed breakdown of their spending.
- **Backend:** A Flask-based REST API managing user authentication, expense tracking, and database operations.
- **Frontend:** A React-powered single-page application offering an intuitive user interface to interact with the backend API.

Dynamic Memory Allocator

September 2024

- Developed a dynamic memory allocator in C for my Computer Architecture class, implementing key memory management techniques.