SARVESH CHEZHIAN

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EDUCATION

The University of Texas at Austin, Austin, TX *Expected Graduation* May 2025
Bachelor of Science, Computer Science
GPA *3.74*
Relevant Coursework:
Cyberphysical Systems: Utilize ROS and C++ to control and operate an F1TENTH car autonomously
Principles of Computer Systems: Built upon a toy operating system in C, adding priority scheduling, virtual memory management, and a multi-threaded filesystem

SKILLS

Technical/Computer Skills: *Advanced Java, Advanced Python, Advanced Robotics, Intermediate C++, Intermediate Linux, Intermediate Mongo, Introductory ROS*
Web Development Stacks: NextJS, PostgreSQL / MongoDB, Express, ReactJS, NodeJS (PERN / MERN); Linux, Nginx, MySQL, PHP (LEMP); Socket.IO, WebRTC; Firebase
Languages: *Advanced Spanish, Advanced Tamil*

WORK EXPERIENCE

University of Texas at Austin Department of Computer Science, Austin, Texas January 2023 - Present
Undergraduate Course Assistant
- Utilize Python's testing frameworks to create unit tests and acceptance tests to validate student submissions
- Assist professor in grading assignments, providing feedback on code, hosting office hours, and hosting weekly recitations

LNG Alliance Pte Ltd, Dallas, Texas June 2023 - August 2023
Software Development Intern
- Worked on the development of two core software engineering projects as a part of the product team
- Designed an online LNG exchange platform and developed a production job application platform using Next.JS and MySQL.

PROJECTS

5a.vc
- Powerful link management system and analytics platform enabling users to redirect and track URLs dynamically
- Built a Next.JS frontend and PostgreSQL backend that allows for link creation and management as well as analytics monitoring
- Employed serverless computing at the edge to enable quick, seamless link redirection near end users

Meridian
- Platform for analyzing trends in and visualizing large sets of oceanic climate data
- Created a Python script capable of processing and analyzing 40 years of sea surface temperatures
- Built an interactive web platform in React JS capable of visualizing millions of data points per day over several decades

Edfusion
- Education app allowing teachers to get real-time feedback on student confusion (Modhacks Hackathon Winner)
- Utilized Electron framework to build both a desktop application and student website in 48 hours
- Implemented a real-time confusion graphing algorithm and question management system with a team of 3

Dokanda
- Webapp that enables patients to understand their symptoms (Garudahacks Hackathon Winner)
- Constructed a real-time video physician-patient chat platform in 36 hours using WebRTC and Socket.IO
- Optimized connections to a PostgreSQL database while simultaneously building mobile-responsive webpages

LEADERSHIP & COMMUNITY INVOLVEMENT

Engineering and Computational Learning of Artificial Intelligence in Robotics, Austin, Texas 2022 - Present
Engineering Director
- Act as lead developer and team leader for a group of students developing an AI-based chess robot arm
- Develop CV-based software for fine motor control of a robotic arm to pick up and move chess pieces on a board

University of Texas EcoCAR EV Team, Austin, Texas 2022 - Present
Senior Engineer, Connected & Autonomous Vehicle Team
- Develop sensor data fusion algorithm for advanced driver assistance on a General Motors vehicle
- Employ machine learning and AI techniques in Dynamic systems and controls using MATLAB