U.S. Green Card Holder

Harsh Gangaramani

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Education

Texas A&M University ***BS in Computer Science, expected graduation May 2025***

- GPA: 3.8 (Dean's Honor Roll), Engineering Honors
- Zachry Leadership Program: Cohort H
- Coursework: Data Structures and Algorithms (C++), Programming languages (Scheme and Java), Computer Organization (C and Assembly x86), Program Design and Fundamentals (C++), Linear Algebra, Discrete Structures for Computing, Statistics 1, Programming Studio, Introduction to Computer Systems (Linux)

Professional Experience

Capsher Technologies
Software Development Intern ***May 2022 - December 2022***

- Developing a web app for a client company to serve as a graphing dashboard for drilling telemetry and one-stop service for admin tasks such as employee management and inspection reports
- Made significant contributions to 9+ new features by writing, reviewing, and testing code
- Exposure to Agile development using DevOps in a collaborative and fast paced environment using the CI/CD method
- Took advantage of Azure Cloud Databases in SQL to speed up live and historical data acquisition of millions of entries
- Full stack development using Vue.js (Node), Typescript, C#, ASP.NET, and SQL in a team of full time employees

Texas A&M University Department of Geophysics ***August 2022 - Present***
Web Developer

- Single handedly developing a set of websites to serve as dashboards that demonstrate mathematical concepts of astrophysics to an upper level class of 500+ students; most recent website: https://planet-compressor.netlify.app
- Creating project plans, weighing potential solutions, and developing sustainable code

Projects

Not Another Driver ***February 2022***

- Developed a Python program to detect sudden braking while driving via computer vision
- Implemented a pre-deployed convoluted neural network in scikit-learn for object detection, and geometrical analysis to identify sudden braking. Video analysis was done using OpenCV.
- Winner of the Ford Challenge at TAMUHACK 2022: https://devpost.com/software/not-another-driver

Workshop on SQL ***January 2022***

- Created a two part workshop series on SQL to familiarize students with the language and its applications
- Educated 100+ students on the flavors of SQL, basic queries, table relations, and the types of keys

Aggie Ticket Assistant ***August 2021 - April 2022***

- Led development (group of 20 students) of a React Native web app to assist Texas A&M students in football pulling
- Solved the problem of confusion in football pulling via a mobile app with a user friendly interface and an optimized algorithm
- Held workshops and code sessions to keep project members up to date on development

Activities

Aggie Coding Club
Projects Officer ***May 2022 - Present***

- Facilitating projects for the Aggie Coding Club: analyzing past engagement data and giving presentations to encourage students of all levels of experience to contribute to projects, and mentoring project managers to promote steady progress
- Redesigned the projects system to encourage participation, resulting in a 90% increase in project engagement

Aggie Data Science Club
Vice President ***May 2022 - Present***

- Managing communication and logistics, organizing projects, keeping members involved, and supervising junior officers
- Expanding the club's offerings to cater to students of all levels of experience: 70% growth in attendance so far
- Hosting a semester-long workshop series to educate 150+ students on the fundamentals of tackling a ML problem via Kaggle

Skills and Interests

- Languages: Python, Java/TypeScript, Java, HTML, CSS, SQL, C++, C#
- Libraries/Frameworks: ASP.NET, Node.js (React and Vue), Scikit-learn, Numpy, Pandas, C++ STL
- Abilities: Software Development, Web Development, Object Oriented Programming, Mathematics, and Statistical Analysis
- Interests: motorsports, car enthusiast, photography, working out, and traveling