

Shreyansh Chhalotra

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EV Racing Engineer and Full Stack Developer

EXPERIENCE

SAE Formula Electric

Aug 2023 – Current | College Station, TX

- Making a testing wire harness capable of reading data from multiple sensors such as pitot tubes, linear travel sensor, brake pressure sensors, and tension load cell sensors on an electric racing car set to race against teams from all across the globe
- Worked on full power diagram spanning across the scope of multiple teams
- Coding Arduino devices to be able to communicate with CAN
- Using industry standard software such as KiCad, RapidHarness, and Race Studio 3

ACC Project Manager and Developer

Aug 2022 – Jan 2023 | Project Dev | College Station, TX

Jan 2023 – May 2023 | Project Manager | College Station TX

- (Dev) Contributed and improved web development skills to make a non-profit organization's website project for free, learned about meeting deadlines and accessibility considerations, dev environments and tech stacks.
- (Manager) Led a team of 17 developers to build a fully flushed out video sharing platform with the goal to create a place where students can promote school organizations and events.
- Gained deeper understanding of Svelte Kit, Firebase, user authentication, and Chakra UI

SpaceCraft VR Cloud/Automation and Commercialization

Jan 2023 – Current | College Station, TX

- Creating and deploying website containing admin panel, organization panel, and user panel
- Building the frontend of an e-commerce website using Next.js for a software subscription service used to train astronauts
- Working on typesafe routing integration in Next.js

All Star Code Cohort

May 2022 – Aug 2022 | New York, NY

- Gained proficiency in web development and gained valuable insights into the real world through conversations with businesspeople of color
- Created and led a project that focused on environmental issues and was presented to investors and sponsors

Major League Hacking Hackathon

Feb 2023 | College Station, TX

- Integrated live data from an Arduino that was able to sense the air quality into a website made with JavaScript
- Made the UI for the website and tested numerous test cases to ensure functionality □ Presented the product to a panel of judges, professors, and companies
- Integrated sensors to an Arduino Uno

Cyber Patriot Team Captain | US Marine Corps. J.R.O.T.C

Aug 2021 – May 2022 | Dallas, TX

- Secured 3rd place in the National Cyber Patriot Platinum League
- Responsible for leading the 3 teams, totaling 36 cadets through the hardest government cybersecurity competition
- Learned and taught cyber security in Debian, Ubuntu, and forensics

CLASSWORK

- ESET 269: Embedded Systems Development in C
- ESET 210: Circuit Analysis
- ESET 219: Digital Electronics
- PHYS 207: Electricity and Magnetism for
- CSCE 120: Program Design and Concepts
- CSCE 222: Discrete Structures for Computing
- CSCE 181: Introduction to Computing

SKILLS

Software

- Svelte Kit (multiple projects)
- React.js (multiple projects)
- Next.js (used professionally)
- C/C++ (2 semesters of classes)
- Excel (2 semester of lab)
- R (certification)
- Cyber Security in Linux Systems (competed in)
- Python (personal projects and 1 semester worth of class)
- Figma (designed webpages)
- Docker (used professionally)

Hardware

- Arduino (Formula E)
- Raspberry Pi (Personal learning)
- KiCad (Formula E)
- MultSim (Formula E and class)
- RapidHarness (Formula E)
- Soldering
- Quartus (Digital electronics)

Certifications

- Intermediate R Programming – TAMU HPRC
- Complete Machine Learning with R Studio ML for 2022 – Udemy
- Core Knowledge and Practical Skills in Cyber Security – SANS Institute
- Cyber Patriot Platinum League 3rd Place National Semi-Finals
- Intermediate Python Programming for Data Science - TAMU HPRC
- HackerRank CSS Certification

Link

