Hassan Khan

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EDUCATION

The University of Arizona

Electrical and Computer Engineering (ECE), Computer Science   December 2023
Minor: Mechanical Engineering, Optical Sciences

SKILLS

Matlab, Python, PSpice (circuit design), Java, Node, C and C++, TypeScript, HTML5, CSS3, React, Verilog (Vivaldo), AutoCad, SolidWorks, data simulation and analysis

EXPERIENCE

Credit One Back   Las Vegas, Nevada
Full Stack Developer Intern   June 2022 – August 2022
- Learned React, TypeScript, HTML5 and CSS3 for the first two weeks of the internship as part of the Front-End Design program.
- Worked on customer service forms to be used as the digital banking team's website. We updated it to a more interactive user interface and updated styling accordingly to Bank's current designs. I created the header, form stepper and file viewer/uploader and re-designed forms as part of the program. We used node to create a back-end for front-end to protect data from being exposed to the user/customer.

Solar Lab (Steward Observatory/College of Optical Sciences   Tucson, Arizona
Research Assistant   January 2022 - May 2022
- Increased effectiveness of solar panels on an average of 25% using concentrated and diffused light using mirrors for domestic/commercial purposes.
- Technical drawings/SolidWorks was used to design a 2D/3D representation of the solar panels with attached mirrors to showcase to the Department of Energy.

Electrical and Computer Engineering   Tucson, Arizona
Teaching Assistant (C Programming)   August 2021 – December 2021
- Checked homework, labs, and exams according to the rubric provided by the professor.
- Improved scores by an average of 40% over the semester by focusing on problem solving and debugging skills in office hours for homework, labs, and exams.

Chemical and Environmental Engineering   Tucson, Arizona
Research Assistant   May 2021 – August 2021
- Analyzed data simulations (stored on Excel) through MATLAB to configure the exact composition of gases (at certain atmospheric conditions) contributed most to global warming.
- Different data configurations were used to measure the intensity of the damage done by the gases and came up with a sieve-like structure to filter them with an efficiency of 60%.

Water Resource Research Center (WRRC)   Tucson, Arizona
IT Assistant   April 2021 – August 2021
- Worked with the college of University Information Technology Services (UITS) to help manage several networks and update computer software and hardware accordingly.

Projects

BAJA Wildcat Racing   Tucson, Arizona
Electrical Team Lead   September 2021 – Present
- Coordinated with a team to design and assemble a telemetry system. Soldered circuit boards and displayed the variable fuel meter using a programmable microprocessor.
- Soldered circuit boards and displayed the variable fuel meter through the use of a programmable microprocessor.