HARDIK SINGH

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EDUCATION

Plano East Senior Highschool	Relevant Coursework: Computer Science Principles, Computer Science A, Calculus BC, Multivariable Calculus GPA: 4.66	May 2023

EXPERIENCE

Crestron – *Software Development/Quality Engineering Intern;* Plano, TX   June 2022 – August 2022
An Intelligent and innovative Audio-Visual Company
- Programmed an object detection and automation framework using Python to automate manual testing for Crestron and Crestron associated drivers.
- Presented product proposals to multiple executives within the company, including the Chief Operating Officer and the Sr. VP of Engineering.

Infiniwell – *Software Development Intern;* Plano, TX   June 2021 – August 2021
A SaaS company focused on providing healthcare to patients at home.
- Developed the brand-new patient-facing app called Sentio for Infiniwell via Swift and encoded messaging and healthcare tracking functions.
- Debugged and fixed errors within Sentioweb and the patient facing app via React and React native.

ACADEMIC/CS PROJECTS

SecurEd – **(CEO of an app that protects schools during crises)**   May 2022 – Current Day
- Developed a computer-based framework that allows teachers and principals to work together to monitor the safety of students and streamline communication during potential school crises.
- Presented the proof of concept to school administration and entered early stages of implementation.

ChaoticAI   **(An online transaction service encrypted by facial/voice recognition)**   June 2021 – March 2022
- Engineered a secure transaction system that used the model to verify purchases in an online setting.
- Integrated chaos theory concepts into a machine learning model through changing the gradient descent loss function to a stochastic differential equation and trained the machine learning model on facial and audio data.

Dermyx **(A Model for the Diagnosis and Treatment of Various Skin Conditions)**   July 2020 – March 2021
- Programmed a multimodal, time-based machine learning model that diagnosed and offered continuous treatment for conditions by using image and text input data.
- Created a user interface that allowed a patient to access the model and continuously track and provide treatment methods based on the severity of the disease.

Justice Coin   June 2020 – September 2020
- Programmed parts of the website for Justice Coin, a nonprofit organization that mines crypto on your computer and donates it to specific charities.
- Won and finaled in multiple hackathons and competitions, including Roundpier and the Seattle Youth Entrepreneurship Competition

SKILLS

- **Programming Languages:** Proficient in Python, Java, JavaScript, HTML, CSS, Basic understanding of C++, Kotlin
- **Tools/Libraries:** TensorFlow/Keras, Scikit-learn, Pytorch, XCode, React, Jupyter, Firebase, Git, PyQt5, Node
- **Computer/Business Skills:** Word, PowerPoint, Canva**,** Jama Connect, Jira, Monday.Com, Notion
- **Languages:** Fluent in English, Hindi. Working Knowledge of Spanish.
- **Hobbies:** Cooking, Playing and watching sports, Hanging out with Family and Friends, Video Games