Shantanu Singh

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Education

B.S., Computer Science (California Polytechnic State University):   **June 2025**

- <u>Applicable Courses:</u> Data Structures, OOP and Design, Computer Organization, Calculus 3, Physics 3

Experience

Software Engineering Intern, Oppti: **July 2022 - September 2022**

- Worked on clearing frontend issues within the backlog in order to maintain the functionality of the website for potential clients/users. Issues such as notification system, Hubspot chatbot integration, and content.
- Worked with a team to update the company website to better fit a mobile view through **ReactJS** , as well as updating content within components to display the correct information.
- Worked with **MongoDB** when developing the notification system for employer dashboard.

Backend Developer, Vera Project (CS + Social Good)**:**   **January 2022 - Present**

- Helped develop the backend for a website aimed at providing mental health resources to students.
- Used **ExpressJS** middleware to communicate with a **MongoDB** database in order to save user submissions and fetch content, and **ReactJS** for developing user interface.
- Tested the GET/POST API's that we wrote through the **Postman** software to ensure functionality.

Code Mentor, InTechual Coding: **June 2020 - August 2020**

- Taught middle school students, foundational **Java** concepts such as variables, conditional statements, loops, and functions.
- Created the final project syllabus of Tic-Tac-Toe in order for the students to showcase what they learned.

Technical Skills

- **Programming languages**: Python, Java, JavaScript, TypeScript, C, C++, HTML, CSS, OCTAVE
- **Libraries/Frameworks/Other**: ReactJS, ExpressJS, MongoDB, React-Native, MySQL, Tensorflow, Redux
- **Software**: Visual Studio, Visual Studio Code, Git (Github/Gitlab), PyCharm IDEA, Postman, Firebase, Figma

Projects

Covid-19 Detection (*Python*) │ https://github.com/shansingh14/Covid-19-Detection :   **November 2020**

- Co-developed an **AI driven** application which detected if a given lung x-ray showed signs of covid.
- Created a **Convolutional Neural Network** with **Keras** in Python, and trained the model with a dataset acquired from Kaggle. Utilized the **StreamLit** library to develop the UI for the application and host as a website.
- Won **3rd** place in the NeuralHack hackathon.

AdoptAKid *(Java)* │ https://github.com/shreshthkharbanda/AdoptAKid :   **March 2020**

- Co-developed a full stack **Android** application for a hackathon style competition. Worked with **Java**, **XML**, and **Firebase.**
- Goal was to simplify the process of connection between potential adoptees and orphanages. Won the Best in Show award at CodeDay Seattle 2020.

TixNow (*React-Native*) :   **June 2022**

- A **full-stack** cross-platform mobile app oriented towards helping college clubs better organize events through allowing them to organize events within the app and keep track of who has tickets to attend. Alternative to manually keeping track of ticket purchases.
- Developed in **React-Native** with **Firebase** as the backend

TicTacToe with AI *(Java)* │ https://github.com/north-creek-high-school/tic-tac-toe :   **January 2020**

- Co-developed the game TicTacToe utilizing **Java** UI libraries and implemented an **AI** aspect using a Game tree and binary tree traversal.