

Harvinder Singh Laliya

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EDUCATION

Syracuse University - College of Engineering & Computer Science - *Syracuse, NY*
Master of Science in Computer Engineering – 3.7 GPA

August 2022 - May 2024

A.P Shah Institute of Technology - Department of Computer Engineering - *Thane, MH*
Bachelor of Engineering in Computer Engineering

August 2018 - May 2022

EXPERIENCE

Web Developer Intern - Kiran Foundation Trust - Thane, MH

February 2020 - March 2022

- Created the first iteration of the website in 1 week using technologies like JavaScript, jQuery and Bootstrap to implement specified requirements
- Integrated a comprehensive timeline of activities covering two years along with an extensive media gallery to effectively showcase the NGO's contributions to potential benefactors.
- Managed hosting, server-side administration and bi-monthly updates to the website for a 2-year duration ensuring consistent site availability and seamless operation

Lead Developer - EG100 Challenge by IEEE Bombay and CDAC - Thane, MH

April 2021 - June 2021

- Led a team of 4 and co-developed "Network Wars," a 3D educational game using Unity 2019.3 and C#, securing first prize among 25 teams.
- Analyzed reward systems in five different educational games to design effective player incentives in the game, enhancing the teaching of core internet infrastructure concepts through lore books earned by completing different levels.

Game Development Intern - APSIT Skills - Thane, MH

August 2020 - September 2020

- Completed a 4-week internship comprising of 20-40 hours of studying effort per week with courses on domains such as management and business competencies and the business of game development
- Committed 60+ hours of project work and prototyped a top-down 3D low-poly arcade shooter built using Blender for designing game assets, Unity 2019 scriptable render pipeline and its C# framework

SKILLS

- **Languages:** JavaScript, TypeScript, Java, C++, (Framework specific experience with C# & Python)
- **Technologies / Frameworks / OS:** React, React Native, Node.js, Next.js, Zustand, TanStack Query, Svelte, AWS, Unity3D, Blender, Spring Boot, Three.js, Git, Firebase, Windows, Linux (Ubuntu/WSL), MacOS
- **Databases:** MySQL, Microsoft SQL Server, MongoDB, Firestore

PROJECTS

Slates – *TypeScript, React, ChakraUI, TanStack Query*

- Chrome new tab extension with productivity widgets styled with ChakraUI, with drag/drop functions and various themes and fonts
- Made custom hooks, implemented caching & re-fetch mechanisms provided with TanStack Query v5, hosted on the chrome web store [here](#)

WordLex - *TypeScript, React, Mantine, Zustand, TanStack Query, Git*

- Dictionary and reverse word lookup app with styled with Mantine, using Zustand for managing state and TanStack Query for handling requests
- Shows four key info. such as spoken pronunciation, definitions, sentence examples and phonetics for queried words, deployed with Netlify [here](#)

Wintastic - *TypeScript, Node.js, Git*

- Windows-only API that provides information on 3 categories: user accounts, startup programs and detailed OS specifications in a JSON format
- Leveraged the Windows Management Instrumentation interface through GCIM, packaged into a node module and published on NPM [here](#)

AirWatch - *Typescript, React Native, AsyncStorage, OpenAI API*

- Cross-platform mobile application which fetches all advanced stats about local air quality, pollutant and pollen information
- Utilized AsyncStorage to implement time-based caching to reduce the number of API calls and used OpenAI's GPT3.5-Turbo LLM model to generate precautionary insights based on the current US AQ index value and pollutants.

Markpages - *JavaScript, Next.js, MongoDB, Git*

- A web app that allows users to create and share content quickly with support for markdown syntax by getting shareable 'page' links
- Used Next.js dynamic routing, MongoDB for data persistence and ChakraUI for component-based styles

SpringBookStore - *Java, Spring Boot, Postman*

- Developed a comprehensive bookstore API, featuring 13 unique routes for user interactions like buying, selling, and viewing transactions
- Implemented user authentication and role-based access control, methods to sell by ID / ISBN and price adjustments post sale

CERTIFICATIONS

- **Nvidia Deep Learning Institute:** Fundamentals of Deep Learning for Computer Vision
- **Palo Alto Networks:** Certified Cybersecurity Entry-Level Technician
- **Dell EMC:** Data Science & Big Data Analytics EMC Associate
- **Oracle Academy:** Java Foundations & Core Java