

Hemraj Rana

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EDUCATION

Oct 2023 — Present	Masters of Science in Infomation Technology, The Kyoto College of Graduate Studied for Infromatics	Kyoto, Japan
	Studying machine learning: mathematics and statistics.	
Apr 2017 — Dec 2020	Bachelor of Arts, Panjab University	Chandigarh, India
	Studied different subject, Economics, Political Science, and Information technology.	

EMPLOYMENT HISTORY

Jun 2022 — Sep 2023	Software Engineer, Snaptrude	Remote - Bangalore, India
	<ul style="list-style-type: none">To let architects design better buildings based on sunlight exposure, developed a Daylight Analysis feature by integrating Cove.tool APIs to analyze 3D building models for Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE). Worked on whole feature from creating user interface, handling geometry data to storing analysis results in database.Improved the design experience and productivity of users by implementing a keyboard shortcut to simplify furniture manipulation; user can rotate multiple furniture along the Y-axis (vertically) by simply pressing the space bar after selection.Increased the productivity of designers by implementing a quick duplication feature. Allowing replication of a furniture with a single click. Selected furniture(s) can be duplicated with a single click in one of the directions (N, S, E, W). Number of copies can be specified using the keyboard, allowing for fast and precise furniture arrangement in interior design projects.Optimized selection feature by reducing selection time of objects in the scene, from 10-20 s to 2-8, when number of objects in the scene > 100 and targeted objects > 10.Maintained built features, fixed bugs, and actively helped out	
Feb 2021 — Jun 2022	Software Developer, Hoolime	Chandigarh, India
	<ul style="list-style-type: none">Built a company-internal revenue and patient record analysis tool. Allowed uploading of large CSV files which are processed in the Python Django backend, stored in a SQL database, and visualized with D3 charts on the frontend. This tool improved accuracy in our finance and medical department by eliminating manual work of the records.Collaborated with team to build Home Care Agency Software for iOS platform using SwiftUI and UIKit. Customized a open source calendar library to show events updates via WebSocket.Led the redesign and modernization of the company's main website, employing fundamental web technologies (HTML, CSS, JavaScript) to deliver a visually appealing and responsive onlineModernized legacy code by refactoring and updating libraries.Built resuable UI components in react of their main SaaS application.	

SKILLS	Problem Solving	Experienced	MySQL	Skillful
	Javascript	Experienced	MongoDB	Skillful
	Python	Skillful	HTML & CSS	Experienced
	Golang	Beginner	Git	Experienced

LANGUAGES	English	Highly proficient	Japanese	Good working knowledge
	Hindi	Native speaker	Nepalese	Good working knowledge

HOBBIES	Chess, Sightseeing, Jogging
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