



Kamaljot Singh


Full-Stack Engineer with a strong background in web technologies and a passion for innovating our world through software.

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Riverside, CA 

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EDUCATION

B.S. Computer Engineering

University of California, Riverside

Graduated June 2020

A.S. Computer Science and Mathematics

Copper Mountain College

Graduated June 2017

WORK EXPERIENCE

Scrum Master

Riverside County of Health Informatics

11/2018 - 03/2020

sites.google.com/ucr.edu/paea-lependu/rchi/pit-2019

Achievements/Tasks

- Led a research team of seven to analyze and develop a visualization platform for Riverside County's homeless data using a system design pipeline. The pipeline transformed raw data to Tableau data visualization and Django storage using React for web visualization.
- Developed Python scripts to reverse geocode values in Riverside County address using Google's Geocoding API. This accomplished obtaining the location of each homeless individual.
- Enforced Kanban usage through Trello, increasing development efficiency by 20%.
- Published visualization of data to thousands of users 1 month ahead of scheduled delivery. rchi.cs.ucr.edu/
- Reduced projected costs of the project by more than 60% by delegating tasks suited for each specific team member and enforcing deadlines.
- Presented research at UCR's Undergraduate Symposium that won the county supervisor an award for excellence.

Data Analyst

Ten Kings LLC

08/2017 - Present

Achievements/Tasks

- Analyzed thousands of customer purchases to effectively prepare reports and communicate strategies along with business leaders, improving sales, and customer satisfaction.
- Developed daily, monthly and yearly reports using Python and Excel depicting top-selling products and key sale driving factors leading to making better decisions, increasing sales by 67%.
- Populated pie charts that represented profit and expense highlighting cost to profit ratios to ensure capital is allocated properly on purchasing the highest-selling merchandise.

Computer Technician

Morongo Unified School District

08/2016 - 06/2017

Achievements/Tasks

- Maintained and troubleshot over 200 computers and IT equipment with internal and external support 100% successfully.
- Aided over 30 faculty members on the proper use of their electronic devices by giving onsite instruction reducing IT calls by 30%.
- Configured and resolved networking equipment via ethernet and Wi-Fi 100% successfully.
- Monitored over 1000 students and classrooms face-to-face and by configured network access.

CMC Coding Club Mentor

Copper Mountain College

02/2017 - 06/2017

Achievements/Tasks

- Mentored 30 Junior High & High School students on programming using the Raspberry Pi and Visual Basic.
- Instructed students on essential computer hardware, architectural components, and its integration with software programming. This led to mentoring a team of 5 to build a desktop computer from scratch.

Technical Skills

Languages: JavaScript, Python, C/C++, Visual Basic, SQL, HTML, CSS

Technologies: Node.js, React, PostgreSQL, Firebase, Jest, Git, Nivo Charts, Materials UI, Figma, Tableau, Visual Studio, Atmel, Vim


Hardware: Atmega1284, Arduino, Raspberry Pi, Embedded Systems

PERSONAL PROJECTS

Yummi  github.com/Spiritual-Programmer/Yummi



A responsive and real-time full-stack React.js web application allowing users to search, filter and create recipes with Firebase.

Supreme Chat  github.com/Spiritual-Programmer/Supreme-Chat




Developed an Android mobile messenger app for instant messaging allowing the user to communicate with their friends. Features include user creation authentication, profile customization, image sharing, and emoji support.

InterviewAdmin  github.com/Spiritual-Programmer/interviewAdmin



Built a web application allowing users to schedule and display a list of interviews through an API and creating an auto generated Universally Unique Identifier.

Mechanic Shop  github.com/Spiritual-Programmer/Mechanic-Shop



Built a database management system of a mechanic shop to store customers, mechanics, cars, and to create and close service requests. Users have access to 5,000 different cars from the data and can present information on cars, customers, and service requests by queries to manipulate and transform information.

Dojo29  dojo29.com/



Built a website for a local martial arts academy. Users can sign waivers, access class information, see past events and get directions.

29 Palms Liquor  29palmsliquor.com




Built a website for a local convenience store. Users can get information on products, get directions and order online via DoorDash.

Book Filter  github.com/Spiritual-Programmer/BookFilter



Developed a Python application that outputs the oldest book from the author with the most number of books given an input of n number of books. Used object-oriented programming along with unit testing to write efficient, clean, and scalable code.

Mobile Phone Store  react-smartphone-store-project.netlify.app/



Deployed a React.js web application where users can purchase mobile cell phones by adding it to their cart, adjust the quantity, and pay through PayPal sandbox.

iHome  github.com/Spiritual-Programmer/iHome



Engineered a smart home hub connecting multiple devices in a centralized platform. Features include controlling the lighting, locking and unlocking the door, and closing and opening the gate of your home through an android device.

RELEVANT COURSEWORK

Intermediate Data Structures & Algorithms, Software Construction, Design of Operating Systems, Design & Architecture Computer Systems, Database Management Systems, Database Systems, Logic Design, Computer Security, Mobile Wireless Networks, Intermediate Embedded Systems, Introduction to Artificial Intelligence, Introduction to Machine Learning & Data Mining, Probability & Statistics, Discrete Structures, Technical Communications

ORGANIZATIONS

Institute of Electrical and Electronics Engineers (10/2017 - Present), Alpha Beta Gamma (01/2017 - Present), Phi Theta Kappa (08/2015 - Present), Sikh Student Association - President (10/2017 - 12/2020), UCR Wrestling - President (05/2018 - 03/2020), Service Club - Vice President (08/2015 - 05/2017)

AWARDS/HONORS

Greenleaf Scholar (05/2017 - Present), President's List (2015,2016) Board of Trustees Presentation for Excellence in Computer Science (10/2016)