Kamaljot Singh

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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

Software Engineer
Optum

12/2021 – Present

Achievements/Tasks

- Developed a web application using React and Camunda DMN. This allowed capability analysts to estimate the cost of pharmaceutical treatments 300% faster and at 99% accuracy compared to previous methods.
- Deployed a web application using Microsoft Azure and Jenkins
- Developing a React web application with MSSQL for supervisors to determine employee resources.

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.
- 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 – 12/2021

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.

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, TypeScript, Python, C/C++, Visual Basic, SQL, HTML, CSS

Technologies: React, Camunda, Node.js, 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)