Kamaljot Singh

Greenleaf Scholar

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EDUCATION

B.Sc., Computer Engineering
University of California, Riverside

Expected Graduation June 2020

Associates in Computer Science and Mathematics
Copper Mountain College *Graduated June 2017*

WORK EXPERIENCE

SCRUM Master
Riverside County of Health Informatics

11/2018 – 03/2020

Achievements/Tasks

- Led a research team of seven to analyze and develop a visualization platform for Riverside County's homeless data.
- Programmed python scripts to reverse geocode longitude and latitude values in Riverside County into the city address using Google's Geocoding API.
- Enforced kanban usage through Trello, increasing production time by 20%.
- Published visualization dashboards of homeless 1 month ahead of scheduled delivery.
- Reduced projected costs of project by more than 60%.
- Presented research at UCR's Undergraduate Symposium.

Business Data Analyst
29 Palms Liquor & Gas

08/2017 – Present

Achievements/Tasks

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

Computer Lab Technician
Morongo Unified School District

08/2016 – 06/2017

Achievements/Tasks

- Managed over 200 computers at facility.
- Aided over 30 faculty members on proper use of their electronic devices reducing IT calls by 30%.
- Monitored over 1000 students and tens of classes face-to-face and by overwatching through windows shell.

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.
- Educated students on essential computer hardware components and its integration with software programming.
- Instructed and guided a team of 5 to build a desktop computer from scratch.

Technical Skills

Languages: C/C++, Python, PostgreSQL, Visual Basic, HTML, CSS, MATLAB, LaTex

Technologies: Tableau, React.js, Visual Studio, Atmel, Android Studio, Vim, Github

Hardware: Atmega1284, Arduino, Raspberry Pi

Operating Systems: Linux, MacOS, Windows

PERSONAL PROJECTS

Yummi

- Created a web application allowing users to find and cook dishes through a database of ten thousand recipes. Users can create a full-featured account, search for recipes, create their own recipes, leave a rating, and comment. They can see top trending recipes from weekly view count allowing the user to find the most popular recipes and can filter out recipes through the use of the dish's meal type, diet, and allergy. This application was developed using React for the frontend and Firebase as the backend with a team of four implementing Scrum. It is all displayed through an aesthetic user interface including interactive health charts using Nivo and is meant for a variety of people including college students, chefs, moms, and people with dietary restrictions.

Supreme Chat

- Developed an Android mobile messenger app for instant messaging allowing the user to communicate with their friends. Features included user creation and authentication, profile customization, image sharing, and emoji support. This application was created via Android Studio using Java and Firebase with a team of seven executing the Scrum agile software development system. The team worked in sprints by breaking down epic user stories into subparts and assigning each member story points to be responsible for their tasks. This process enabled the team to have great communication and complete the application quickly in 6 weeks.

Mechanic Shop

- Built a database management system replicating a mechanic shop. Users can add customers, mechanics, cars, and create and close service requests. They have access to 5,000 different cars from the data and can list specific details of the cars, customers, and service requests by queries. This DBMS was developed using PostgreSQL and Java with the creation of ER diagrams and relational schemas. This system allows a mechanic shop to fully manage its operations and services in an easy to use command line interface.

Mobile Phone Store

- Deployed a completely functional mobile phone store web application online. This was developed using React.js with responsive webpages and interactive graphics for each product. It included using styled-components for graphics, PayPal sandbox for completing transactions and is hosted through Netlify. Users are able to add products to their cart, adjust the quantity, and pay through PayPal.

iHome

- Engineered a smart home hub connecting multiple devices in a centralized platform. Features of this device include controlling the lighting of your home, locking and unlocking the door, and closing and opening the gate. These components can be controlled remotely via an Android application connected through Bluetooth or by a central device. This system was programmed in C using two Atmega 1284s including a Bluetooth module, servo motor, stepper motor, and an LCD display. iHome saves time, adds security, and helps people with busy lives to control their home even when they are not physically there.

Monster Adventures

- Constructed a 2D adventure game on Windows desktop where the player explores the world and fights monsters to go to the next level. The game used tiled graphics where the player can choose various characters, fight through challenges, find treasure chests, and even gamble. It was produced using Visual Basic in Visual Studio and implemented formal design documents generating a program flow chart, hierarchy chart, TOE chart, and pseudocode. This process allowed me to consider functional requirements such as the purpose of the software, users, features, and marketing. It was professionally presented to the Board of Trustees at CMC for its achievement.

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 of Programming Project (10/2016)