Saneer Gera

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EDUCATION

Bachelors of Technology Computer Science   `09/2015 - 06/2019`
Guru Nanak Dev University, Amritsar India

Masters Computer Science (Co-op)   `09/2019 - 08/2021`
University of Ottawa, Ottawa , Canada

WORK EXPERIENCE

Software Development Student (Co-op)   `Jan 2021 - Present`
Blackberry, Waterloo Canada

- Developing backend api based on microservice based architecture using Go-lang and developing front end for these backend API's using React and Redux.
- Using MY-SQL , redis and elastic search as database and data frameworks
- Getting hands on experience with dev-op tools such as Docker , Kong, Rancher, CI/CD pipelines
- Working in Agile development environment and using JIRA for sprint planing
- Part of IPG-Automation team and working on their product named cloud console

Head Teaching Assistant   `Jan 2020 - April 2021`
University of Ottawa, Ottawa,Canada

- Worked as Teaching assiistant for Intro to Java (Winter 2020) , Software engineering using Angular and spring boot (Fall 2020) and then was promoted to Head Teaching assistant for Intro to Java (Winter 2021)
- Preparing the course materials for tutorials, labs, and assignments.
- Scripting solutions for assignments and labs.
- Provide support for project work that helps them enhance their practical implementation knowledge related to the course
- Teaching tutorials and resolve student's queries related to assignments.

Software Development Intern   `Dec 2018 - June 2019`
Hacker.io, Gurugram India

- Developed Hackr.io (https://hackr.io/), an online platform which aggregate courses from many providers to make it easy to find the best courses on almost any subject, wherever they exist on the web
- User Angular 5 and Laravel to develop front-end and back-end components
- Worked on development pipelines for smooth deployment
- Integrated elastic search to improve search performance

SKILLS

Programming	Javascript, Java, Python, Go
Web	Node, React, Express, Go-lang, Jquery, Laravel (PHP)
Mobile	React Native
Database	My SQL, Mongo DB, Redis, Elastic search tool
Devops	AWS, Azure, Docker, kubernetes, Rancher

PROJECTS

Real Time Object Detection on LIDAR data using YOLOv4 *Python, Matplotlib, Deep Learning*
This is my graduation project which uses 500 gbs of LIDAR data .This Lidar data is in form of 3d point clouds .The task was to convert this clooud point data into 2d images using custom code built on nuscene python library .Then these images were trained on Visual computing algorithm YOLO v4 .Hyperparameters and performance was compared and presented inform of report

Full Stack Pizza order and delivery app (Freelance) *Node, Express, Mongo DB, Laravel Mix, Socket.io, Stripe*
The app is part of freelance project .It was create for a pizza shop that required an admin section to update the delivery status and a customer section to make payment , sect pizza and also keep track of pizza order.The app uses node,express,mongodb,laravel templating engine , sass , socket.io and stripe payment gateway

Automated Crypto Trading Bot *Python, Binance API, Bitmart, Meta Mask*
A trading program that can automate your strategy, project can also use it as a trading assistant by building a user interface (UI) that will help to follow trades and market data. App was used for an understanding on how to develop a solid Tkinter interface and integrate it with the trading automation part.

Acad Chat (Freelance Project) *React Native, Socket.io*
The task was to create a react native app that uses socket.io to build a chat pipeline between student and teacher .The company closed but it was fun to learn react native navigaion and other components of react native .

Full Stack MERN based Quora Clone *React, Redux, Nodejs, Express, Mongo Db, Passport.js*
his quora clone as part of internship assignment where the front end is written in React/Redux and backend is working in nodejs