

SHUBHAM ROHAL

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Github: github.com/sr004

EDUCATION

University of California, Merced

Merced, CA

Master of Science in Electrical Engineering and Computer Science; GPA: 3.8/4.0

Aug. 2019 – May 2021

- **Courses:** Advance Algorithm Design and Analysis, Computer Visison, Advance Intelligent Systems, Distributed Computing, Parallel Computing.

Kurukshetra University

Kurukshetra, India

Bachelor of Technology in Computer Science and Engineering; 65/100%

Aug. 2013 – May 2017

- **Courses:** Data Structures, Intro to Neural Networks, Design and Analysis of Algorithm, Operating Systems, Object-Oriented Programming, Database Management Systems.

EXPERIENCE

Research Assistant

Aug. 2020–Present

University of California, Merced

Merced, CA

- **Objective:** " *Event Detection* through video data using the OpenPose pose estimation and image differencing in an autonomous store and use of other sensing modalities to improve the identification of event and products".

Teaching Assistant

Jan 2020–May 2020, Aug. 2020–Present

University of California, Merced

Merced, CA

- For Spring 2020 I was TA for **Intro to Object-oriented programming**. The class focus is on teaching Object-oriented programming, full-stack development and version control using **C++** and **Gitlab**.
- For Fall 2020 I am TA for Intro to Object-oriented programming and Data-Structures class.

Java Trainee

June 2015 – Aug. 2015

AlphaIt World

Chandigarh, India

- Worked on development of monitoring software for work from home situation. Worked with robot class and REST API.

PROJECTS

Optimizing High Performance Computing Application using Neural Network.

Neural Network, OpenFuleCel, High Performance Computing. | github.com/sr004/OpenFuelCell-1

- Employed **multi layer preceptron network** improved the performance of solid oxide fuel cell simulation performance approximately by **98%, from 120 minutes to 1.7 minutes**.

Cyber Monitoring.

Java, SQL, RESTful.

- Developed a client server application that take the screenshots of client starting from login and upload the screenshots on server at the end of session. Used **Java** and **Robot class** for the screenshot part and **SQL** to maintain database and **REST API** for authentication.

Sunny Weather Android Application.

Android Studio, SQLite, Okhttp, JSON.

- Developed live weather application using Darksies website API to get data. Used **Okhttp API** and **JSON** for data collection and data processing.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL.

Certifications: Convolutional Neural Networks with Keras(Datacamp), Python toolbox for Data Analysis(Datacamp), Intro to Deep Learning with PyTorch(Datacamp).