

Rishi Sharma



Software Engineer

Relevant Experience: **1.2 year**

Total Experience: 1.5 Years

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About me



Enthusiastic Software developer eager to contribute to the team's success through hard work, attention to detail and excellent organisational skills. Carefully customizes each product to user needs and budgets. A clear understanding of development methodologies and skilled in C/C++ & Python.

Experience

Palo Alto Networks

Software Engineer

July 2022 - present

- Developed web applications based on Flask, which allows users to create tickets to unblock a rule from the firewall.
- Developed a microservice(PR categorizer) which categorizes a PR into three categories Restrictive/Permissive/Mix, which helps reviewers review the PRs.
- Use my extensive experience with OOPs to define the structure and components for the project, making sure they are reusable and highly readable.
- Working on the latest tech stack, such as Python, Flask, GCP, Bigquery, Devo, and Panorama.

Cisco Systems

Software Engineer

Aug 2021 - Jul 2022

- Designed & developed a microservice (QRM) which takes in the customer's call, stores it in the Kafka queue, & routes the call to an agent based on the algorithms such as best/longest available agent.
- Keep the code quality high by reviewing code from other developers and suggesting improvements & optimization.
- Interact with the designer to suggest changes and ensure his/her view about the design is translated into actual functionality.
- Worked on the latest stack such as Postgresql, Scala, Kafka, µservices and tools such as Confluence, Jira and Docker.

Cisco Systems

Data Analyst Intern

May 2020 - June 2020

- Created a pipeline for automatically doing anomaly detection of time series data collected across the Cisco Webex servers.
- Coordinated statistical data analysis and time series forecasting of the Webex data.
- Built library of models to produce consistent and streamlined business intelligence results for doing time series forecasting from the data across Cisco Webex.
- Used statsmodel, NumPy, pandas, Matplotlib, Sklearn for data analysis and plotting.

Link:- <https://github.com/kampaitees/Internship-Project>

Key Projects / Involvements

1. **WIDECAPS: Wide Attention-based Capsule Network for Image Classification** | Apr 2020 - Jul 2021| A research paper proposes a new design strategy for Capsule Network architecture for efficiently dealing with complex images.

- It outperforms the top-5 performance on benchmark datasets CIFAR-10 and Fashion MNIST with highly competitive performance on the SVHN dataset.
- The proposed method incorporates wide bottleneck residual modules and the SE attention blocks to address the defined problem.

Link:- <https://arxiv.org/pdf/2108.03627.pdf>

2. **Criminal Image Search** | Jun 2019 - Jul 2019 | A web portal for searching the criminal image from database output best 'n' similar images found from records of criminals.

- Used Django as backend and python as a scripting language.
- The front end is created with the help of HTML, CSS, and JavaScript.

Link:- <https://github.com/kampaitees/Web-App-for-Image-Search>

Certificates and Awards

- Published a research paper for getting the state-of-art accuracy in Capsule Network architecture on benchmark Image Classification dataset.
- One of the 150 participants selected from India for Google Research India - AI Summer School (August 2020).
- Secured 7th rank(out of 3k) all over India in Intel Scene Image Classification Challenge

Technical Expertise

Python



Data Structures & Algorithms



C++



Computer Vision



Machine Learning



Flask



Skills / Exposure

Object Oriented Programming(OOPs)

Deep Learning

SQL

Data Analysis

Data Science

Googling

Django

Numpy

Pandas

Matplotlib

Sklearn

Jupyter Notebook

Tensorflow

Presentation

Django

Methodology / Approach

Component based architecture

Agile methodology

Design Patterns

Test Driven Development

Tools

Git

PyCharm

Jira

Confluence

IntelliJ IDEA

Github

Education

B.Tech

2017 - 2021

Computer Science

National Institute of Technology

8.3

Karnataka(NITK), Surathkal

CGPA