




DIVJEET SINGH JAS


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EDUCATION

University of California, Davis

Sept 2021 - Exp. May 2023

M.Sc in Computer Science

CGPA - 4.0/4.0

Coursework: Distributed Data Systems, Software Engineering, AI for Visualizing Data

Delhi Technological University, India

Aug 2016 - May 2020

B.Tech in Information Technology

CGPA - 8.2/10

WORK EXPERIENCE

Mushin Innovation Labs Pvt. Ltd. (Early-stage Startup)

Delhi, India

Core Team Member & Solutions Architect

Jun 2020 - Sept 2021

Technologies: Python, React, Node, Flask, MySQL, MongoDB, AWS, OOP, REST API, IoT, Serial MODBUS, MQTT, PWA, UI/UX.

- Released 3 automation projects into production within 6 months of joining, contributing to ~25% of the company's annual turnover.
- Led the R&D team to create a novel IoT software that improved worker efficiency by ~10% by enabling remote monitoring & management of manufacturing units across Delhi NCR.
- Designed and deployed an innovative smart-elevator solution for multiple residential societies in Delhi NCR, which monitors the system health and generates safety alerts for elevator users based on historic & real-time data analytics.
- Developed an industry compliant quality management software for automobile manufacturers, which brought down the audit cycle time to a day from ~1.5 months. It permitted paperless audits & saved ~\$3000 per month in overhead costs.
- Managed a team of 6 full-stack & cloud engineers.

Delhi Technological University

Delhi, India

Research Intern

Jun 2019 - July 2019

Technologies: Python, Android Malware, Static Analysis, Machine Learning, Deep learning, Pytorch, NumPy, pandas.

- Performed static analysis of the Drebin dataset containing 5,560 applications from 179 different malware families to extract security-sensitive features using the Androguard API for python.
- Classification of malicious applications with up to ~96% accuracy using machine learning models using the Pytorch.
- Published an academic paper on the research conducted.

Spicejet Ltd.

Haryana, India

Software Engineering Intern

Dec 2018 - Jan 2019

Technologies: Java, REST API, MySQL, Spring Boot, Maven, JAR.

- Deployed automated service to fetch data from the server and email 100+ employees alert, relieving HR resources by ~10%.
- Integrated the company's MySQL customer database to a login web portal using Restful API.

PROJECTS

AndroCOP | Machine learning / Research

[Paper ↗](#)

A lightweight and robust web application created using Python/Pytorch that detects the presence of malware in an APK file with up to ~96% accuracy using novel static analysis based on ML/DL models

CoWIN Notify | Full-stack

[Code ↗](#) [Link ↗](#)

Web application built using MERN stack to notify registered users of available vaccine slots in real-time.

Helping 1000+ users across 25+ states in India

NFT Marketplace | Full-stack

[Code ↗](#) [Link ↗](#)

A decentralized NFT marketplace and minting platform focused to connect the creators to buyers, created using React.js, TailwindCSS, RabbitMQ, Pinata, Express.js on ResilientDB.

COVID19 Dashboard | Frontend

[Code ↗](#) [Link ↗](#)

Dashboard developed using React.js, Chart.js, and COVID Time-Series API (Pomber) that shows the dynamics of the spread of coronavirus distribution per country

SKILLS

Cloud	: AWS, Heroku, Netlify, GCP
Programming	: JavaScript, Python, HTML/CSS, C/C++, Java, Bash, LaTeX
Frameworks & Tools	: React.js, Node.js, Vue.js, Flask, Pytorch, FastAPI, Git, Docker, Github Actions, Figma
Database	: MySQL, MongoDB, Postgresql, DynamoDB