DIVJEET SINGH JAS

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EDUCATION

University of California, Davis *Sept 2021 - Exp. Jun 2023*
M.Sc in Computer Science CGPA - 4.0/4.0
Coursework: Distributed Data Systems, Software Engineering, AI, Data Visualization using AI

Delhi Technological University, India *Aug 2016 - May 2020*
B.Tech in Information Technology CGPA - 8.2/10

WORK EXPERIENCE

Mushin Innovation Labs Pvt. Ltd. Delhi, India
Core Team Member & Solutions Architect *Jun 2020 - Sept 2021*

Technologies: Python, React, Node, Flask, MySQL, MongoDB, AWS, OOP, REST API, IoT, PWA, UI/UX
- Pioneered the growth of the company in software and cloud IoT verticals. Delivered 3 major projects within 6 months of taking charge
- Developed a novel sensor monitoring firmware using python on RaspberryPi and set up an AWS MQTT broker for data movement
- Designed & executed live sensor data monitoring dashboard using Vue.js, PHP Laravel, and MySQL with up to 0.8s delay
- Fabricated a pilot factory auditing software using MERN stack catering to MSIL and Honda compliance norms under 6 months
- Managed a cross-platform team of 6, frontend, backend, and 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 existing/new android APKs to extract security-sensitive features using the Androguard API for python
- Classification of malicious applications using deep learning algorithms like graph convolution network using the Pytorch

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, saving time by 40% using Eclipse
- Integrated a Restful API (Connected with Remote MySQL database) with a login web portal using Spring Boot

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 using novel static analysis based on ML/DL models with up to ~96% accuracy

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

Pokédex | Frontend Code↗ Link↗
A digital encyclopedia of the first generation of Pokemon made with React.js, Tailwind CSS, and PokeAPI

SKILLS

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