

# DIVJEET SINGH JAS



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## EDUCATION

### University of California, Davis

M.Sc in Computer Science

Coursework: Distributed Data Systems, Software Engineering

Expected Graduation: *June 2023*

CGPA - 4.0/4.0

### Delhi Technological University, India

B.Tech in Information Technology

*Aug 2016 - May 2020*

CGPA - 8.21/10

## SKILLS

### Cloud Deployment

: AWS, Heroku, Netlify, Basic GCP

### Technical Languages

: JavaScript, Python, Java, HTML/CSS

### Frameworks

: React.JS, Node.JS, Vue.JS, Flask, Pytorch, FastAPI

### Database

: MySQL, MongoDB

## WORK EXPERIENCE

### Mushin Innovation Labs Pvt. Ltd.

Core Team Member & Solutions Architect

Delhi, India

*Jun 2020 - Sept 2021*

- 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 dashboard using VueJS, 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
- Designed cloud architecture for 10+ web applications using Elastic Load Balancers and EC2 web servers for 90% availability
- Integral part of hiring and building the company's software team
- Managed a cross-platform team of 6, frontend, back end, and cloud engineers

### Delhi Technological University

Research Intern

Delhi, India

*Jun 2019 - July 2019*

- Static analysis of existing and new android applications for extracting security-sensitive features using the Androguard module of python
- Classification of malicious applications using deep learning algorithms like graph convolution network using the Pytorch

### Spicejet Ltd.

Software Engineering Intern

Haryana, India

*Dec 2018 - Jan 2019*

- Created automated service to fetch data from the server and email 100+ employees alerts, 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 developed 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

### COVID19 Dashboard | Frontend

[Code](#) [Link](#)

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

### Pokédex | Design / Frontend

[Code](#) [Link](#)

A digital encyclopedia of the first generation of Pokemon made with React JS, Tailwind CSS, and PokeAPI

## EXTRACURRICULARS

- Teaching Assistant for DES 157A - Fall'21, DES 157B - Winter'22
- Secured 8<sup>th</sup> rank among 350+ teams at INCTF 2018, national-level cybersecurity competition, Amrita Foundation, Kerala