DIVJEET SINGH JAS

Davis, California

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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, Algorithms

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

SKILLS

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

WORK EXPERIENCE

Coupa Software Inc   San Mateo, CA, USA
Software Engineering Intern   Jun 2022 - Present

Technologies | React, Redux, Ruby on Rails

- Conceptualized and presented the Proof of Concept to the Invoicing Team for an end-to-end feature that shows historical invoicing data to enhance user experience.
- Implemented the business logic, created the UI components for the historical invoicing data and deployed to production.

Expolab, UC Davis   Davis, CA, USA
Graduate Student Researcher   March 2022 - Jun 2022

Technologies | Vue.js, React.js, TailwindCSS, RabbitMQ, Pinata, Express.js, Grafana, Prometheus, Blockchain

- Created an Observability and Monitoring tool to analyze blocks and transactions data for ResilientDB↗ (Experimental Blockchain database).
- Developed a decentralized NFT marketplace and minting platform focused to connect the creators to the buyers on ResilientDB.

Mushin Innovation Labs Pvt. Ltd.   Delhi, India
Core Team Member & Software Engineer   Jun 2020 - Sept 2021

Technologies | Python, React, Node, Flask, MySQL, MongoDB, AWS, OOP, REST API, IoT

- 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.

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 ML models like KNN, SVM, Random Forest & Logistic Regression.

PROJECTS

CoWIN Notify | Full-stack   Code↗ Link↗
  Web application built using MERN stack to notify registered users of available COVID vaccine slots in real-time.
  Helping 1000+ users across 25+ states in India

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 models

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