Priyanka Birajdar

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EDUCATION

San Diego State University, San Diego, CA | Master of Science in Computer Science | GPA: 3.7/4.0 — *Aug 2022 – May 2024*

University of Pune, India | B.E, Information Technology | GPA: 3.92/4.0 — *June 2015 – May 2019*

PROFESSIONAL EXPERIENCE

TESLA Inc | Software Engineer Intern | *Fremont, California, USA* — *Jan 2024 – May 2024*

- Designed and developed real-time inventory dashboard for Varnish CDN & F5 Load Balancers utilizing React, TypeScript, GraphQL, and Python FastAPIs, enabling comprehensive visibility into node health status and essential metrics retrieved from Prometheus node exporter, enhancing Tesla's network infrastructure management.
- Automated the provisioning of new Varnish nodes in NetBox and applied tagging conventions to existing CDN nodes using a Python-based NetBox tagging service, streamlining node management operations.
- Configured and deployed Varnish CDN reverse proxies on virtual machines, ensuring seamless connectivity with upstream backend servers for optimized cache content delivery.

VIASAT Inc | Software Engineer Intern | *Carlsbad, California, USA* — *May 2023 – Aug 2023*

- Enhanced and developed Golang robust scripts for automation to effectively retrieve metrics from PagerDuty RESTful APIs, implemented authentication, error handling capabilities along with database integration.
- Implemented CI/CD scripts in Drone and set up Docker for running EC2 instances ensuring seamless integration of the scripts with the infrastructure leading to automated deployment processes.
- Created a comprehensive dashboard for the collected data in Grafana and incorporated this visualization to provide valuable insights and facilitate data-driven decision-making.

JOHN DEERE | Software Development Engineer II | *Pune, India* — *June 2020 – July 2022*

- Designed and developed an interactive web farm management system with John Deere Operation Center for a customer base of more than 100k by leveraging react.js, react hooks, redux, javaScript, typeScript .
- Developed 3 microservices using RESTful APIs and spring-boot, complemented by the creation of 500+ integration tests in Java.
- Participated and won the most prestigious **John Deere Global Hackathon 2021** for the enhancement to the existing Work Planner tool in operation center which led to a better user experience for the customers to plan farming jobs.
- Led the team of 9 people as a scrum master while working in an agile environment to deliver end-to-end projects.
- Prepared 1000+ unit test cases using mocha and jest frameworks while working on 2 projects.

JOHN DEERE / Software Development Engineer I | *Pune, India* — *July 2019 - May 2020*

- Architected and implemented a solution to move the planned farming jobs associated with end user from operation center to on-field John Deere machines using react.js, redux, typescript.
- Won **John Deere Global Hackathon 2020** for identifying a critical gap in the existing Product Manager tool and providing an effective prototype with robust solution.
- Setup deployment pipeline using Drone and Jenkins for the project thus leading to faster continuous deployment.
- Designed and executed end-to-end regression tests using cypress while working on 2 different projects.

AMCID SOLUTIONS | Software Engineer Intern | *Pune, India* — *May 2017 – Aug 2017*

- Built an online platform to conduct aptitude tests for 350+ students in the hiring process using Java and Spring-Boot.
- Analyzed 1000+ questions weighed by various companies through online research and designed the exam pattern consisting of 3 sections – quantitative, verbal and data interpretation.
- Assessed and sent an automatic email with the detailed scores to the candidates and HR.

TECHNOLOGY STACK

Languages: JavaScript, Java, TypeScript, Go (Golang), Python, C++

Web Technologies & Frameworks: React.js, Redux, Node.js, Angular.js, webpack, babel, ECMAScript, CSS3, HTML5,

Databases: My-SQL, MongoDB, PostgreSQL

Software Technologies: REST APIs, F5 Load Balancers, NetBox, Varnish CDN, AWS, Mocha, Jest, Junit, Spring Boot, Docker, Drone, Jenkins, Cypress, Grafana, Prometheus

PROJECTS

Concrete Image Analysis using CNN | *Python, TensorFlow* — *Jun 2018 - Feb 2019*

- Developed a web-based application using convolutional neural network for analyzing the quality of concrete –mix through captured images using standard dataset (70% training and 30% testing).
- Performed extensive exploratory data analysis, feature engineering and feature selection.
- Created a standard dataset of 192 images by visiting the construction sites and performing a subjective analysis for each image with the help of domain experts to grade each image with Visual Stability Index.

Blood Bank Management System | *Java, MYSQL, CSS, Bootstrap* — *Nov 2017 - Mar 2018*

- Volunteered to build a web application to manage blood-donation camp organized by department using Java.
- Performed all CRUD operations to keep track of each blood type available and donor details for 1000+ users.