

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
University of Pune, India | B.E, Information Technology | GPA: 3.92/4.0

Aug 2022 – May 2024
June 2015 – May 2019

PROFESSIONAL EXPERIENCE

C3.AI | Software Development Engineer | Redwood City, California, USA

June 2024 – Present

- Designed and developed a tailored application for Cargill, through C3.ai, to manage it facilities and associated production operations across united states, utilizing react, redux, JavaScript on the frontend.
- Implemented Python-based REST APIs and backend logic data pipelines to integrate and transform Cargill specific data to and from SAP into C3.ai's type system ensuring seamless data flow and accurate scheduling within Cargill's production operations.
- Wrote comprehensive unit tests cases using Jasmine for front-end components and Pytest for backend services, ensuring high code quality and reliability.

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.