

LALIT NAIDU

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TECHNICAL SKILLS

Languages: Typescript, Javascript, HTML/CSS (Sass), Python

Frameworks/Libraries: Next.js, React.js, Express.js, Node.js, Bootstrap, Prime React, Jest, React Testing Library, Playwright, Cypress, Storybook, React Query, Jotai, Knex

Databases: MongoDB, PostgreSQL, SQLite

Tools: Git, Docker, AWS (ECS, IoT Core, S3, Cognito, EC2, CloudFormation, SQS, SNS, Lambda, API Gateway), AWS SDK, POSTMAN, Terraform, Rollup, Webpack, IAM, Prisma, Kubernetes

PROFESSIONAL EXPERIENCE

Full Stack Developer

Jan 2022 - March 2024

Irdeto, Ottawa, ON, Canada

- Designed the Irdeto Reference Cloud Application (IRCA), a customizable company themed full stack application based on **Next.js** and written in **Typescript**, to help teams jumpstart their projects.
- Created an interactive and responsive frontend, for a Fleet Management System backend that supported asset management, routing, tracking asset state and metrics; using **React Query** and **Jotai** for data fetching and state management.
- Created an inventory management system using IRCA to track items donated to warehouse for supporting refugees. Used **AWS SDK** to integrate **S3**, **Lambda** and **API Gateway** to create an image uploading microservice for each piece of inventory and **SNS** for notifying volunteers on items given.
- Contributed to an Identity Management System for a **BaaS** product called **IRIS** that helped host and authenticate containerized applications built using **Express.js** and **Knex** and orchestrated by **Kubernetes**.
- Developed a standalone application-agnostic library featuring company themed **UI** components (using **Prime React**), helpers, context providers and utility functions.
- Designed a **Role Based Access Model (RBAC)** system to determine the resources and permissions associated with roles fetched from **Auth0**, **Azure AD** and **Cognito** for a user
- Created an Admin tool which streamlined the process to create resources and assign permissions to roles based on the RBAC system with the model hosted on a **Postgres** database and queried with **Prisma**
- Designed user management **REST APIs** and incorporated **OAuth 2.0** and **OIDC** standards to integrate providers for authentication and authorization to access it using **JWT tokens**
- Wrote **Jest**, **Playwright** and **Storybook** Interaction tests; Defined jobs in CI pipeline to ensure 75% coverage for the IRCA application and library
- Implemented **SonarQube** to minimize bugs, code smells and track code coverage effectively
- Integrated regression testing and quality gates through CI jobs, ensuring an overall coverage increase from 42% to 86% using **Cypress** (UI Testing) and Jest (Backend Testing)

Quality Assurance and Automation Engineer

Feb 2020 – Nov 2021

Mobiux Labs, Bangalore, KN, India

- Wrote automated unit, integration, and E2E test cases using Jest, raising coverage from 65% to 92% for an Express.js, **event-driven** backend structured around **AWS IoT Core**
- Utilized **AWS CloudWatch** to monitor and debug production system using queries and dashboards
- Worked with AWS SDK to test and integrate a message queue using the **SQS** and **SNS** services

EDUCATION

B.E. Computer Science and Engineering

2014 – 2019

Nitte Meenakshi Institute of Technology, Bangalore, India