

PALLAV SONI

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SUMMARY

Full stack engineer experienced working with agile teams and developing highly **interactive, responsive, and performant** web apps. Collaborated with product owners, designers, and cross-functional teams to perform requirement analysis, architecture design, unit testing, code reviews, documentation, and debugging. A knack for **owning and leading projects** with an **impact**-driven attitude and **customer-centric** approach.

EDUCATION

Carnegie Mellon University

Master of Science Software Engineering (GPA: 3.5/4)

Mountain View, CA

December 2023

Relevant Coursework: Cloud Infrastructure, Browser Security, Software Architecture, Software Refactoring

Birla Institute of Technology and Science Pilani

Bachelor of Engineering Computer Science (GPA: 3.82/4)

India

July 2020

Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, Database Systems

WORK EXPERIENCE

Athenahealth

Boston, MA

Software Engineering Intern

June 2023 - August 2023

- Launched a design library of **React components** on NPM, facilitating reuse of styled components and version management across **5+** projects, reducing development time by 20%.
- Implemented **HIPAA-compliant** patient status and history **REST API** that helps track patient history in a care program. Added **monitoring** for the API by using **AWS Cloudwatch**.
- Developed frontend for **care programs dashboard** that allows practitioners to configure custom care programs for their patients and monitor patients' status and history from a single dashboard.
- *Tech Stack - React.js, Node.js, Typescript, GraphQL, Jest, MaterialUI, Webpack, PostgreSQL and AWS.*

Birdeye

Palo Alto, CA

Software Engineer I

January 2021 - August 2022

- Founding team member of a highly scalable **payments micro-service**, seamlessly processing 10K transactions per minute. Integrated Stripe SDK and implemented an event-driven **system** using messaging queues.
- Developed reports interface allowing HTML to PDF conversion, slashing **PDF generation** time by 40%. Catalyzed a remarkable 32% increase in customer adoption of PDF reports.
- Laid the foundation for **adoption of Typescript** into the frontend codebase. Performed POC, and knowledge sharing with the team and devised a migration roadmap.
- **Containerized** a legacy Java service using docker, enabling ease of deployment over the cloud.
- Implemented **pagination** and infinite scroll on UI to boost the loading and perceived performance of web pages.
- Fixed critical **UX issues** and leveraged redux store to sync filters across different web pages in the dashboard.
- **Mentored** 2 entry-level engineers and helped the team streamline engineer onboarding procedures.
- *Worked with - Javascript, React.js, Node.js, Typescript, Redux, Saga, Jest, SCSS, Kafka, MySQL, AWS*

Ixigo (Travel Startup)

Gurgaon, India

Frontend Developer

July 2020 - December 2020

- **Boosted** itinerary **webpage performance** with **react memoization** and lazy loading DOM, resulting in quicker checkouts, higher customer conversions, and a Lighthouse score surge from **78 to 95**.
- Engineered REST APIs in **Node.js** for a business **analytics dashboard**, capable of generating alerts for business metrics, and reporting any threshold violations.
- *Technologies - Javascript, ReactJS, Jest, Tailwind, Apollo + GraphQL, d3.js, MongoDB*

OPEN-SOURCE PROJECT

[PlantD - Performance, Latency ANALysis, and Testing for Data Pipelines](#)

- Open source contribution to PlantD - A data pipeline performance testing tool for cloud native pipelines.
- Added horizontal **autoscaling** capabilities to an ETL pipeline running on a **kubernetes** cluster.
- Created an **observability** setup to collect resource consumption and auto scaler metrics using a kube-state metrics collector. Allowing pipeline developers to debug autoscaling issues efficiently.
- Tech stack - Python, **Docker**, **Kubernetes**, Terraform, **AWS EKS**, Litmus