PALLAV SONI

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SUMMARY

Full stack engineer experienced working with **agile** teams and developing highly scalable, responsive, and performant cloud-native applications. Collaborated with product owners, designers, and cross-functional teams to perform requirement analysis, architecture design, **unit testing, code reviews, documentation, and debugging**. Prefer **owning** and **leading** projects end-to-end in **small teams** with a customer-centric approach and **impact-driven** attitude.

EDUCATION

Carnegie Mellon University   Mountain View, CA
Master of Science Software Engineering (GPA: 3.5/4)   December 2023
Relevant Coursework: **Cloud Infrastructure**, Software Architecture and Design, Browser Security

Birla Institute of Technology and Science Pilani   India
Bachelor of Engineering Computer Science (GPA: 3.82/4)   July 2020
Relevant Coursework: Data Structures, Algorithms, Object Oriented Programming, Machine Learning, Database Systems

WORK EXPERIENCE

Athenahealth   Boston, MA
Software Engineering Intern   June 2023 - August 2023
- Performed feature development, **code reviews,** unit testing, documentation, and releases in an agile setup.
- Implemented **HIPAA-compliant** patient status and history **API** to **monitor patient** progress in a care program. Added **monitoring** by using **Prometheus** and **AWS Cloudwatch.**
- Formulated technical readiness of a new **Java microservice** by improving REST **API performance** by 26% through implementing new **cache** strategies.
- 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%.
- *Tech stack - Java, Spring Boot, React.js, HTML, JUnit, Jest, Mockito, Typescript, GraphQL, MongoDB, and AWS.*

Birdeye   Palo Alto, CA
Software Engineer I   January 2021 - August 2022
- Established a highly scalable **payments micro-service on the cloud** from scratch, processing 10K transactions per minute. Integrated Stripe SDK and implemented an event-driven system using **Kafka**.
- Orchestrated a REST-based API framework for fast, **unified search** across **distributed** customer data, updated elasticsearch index to achieve sub-1 second query response time as a performance benchmark.
- **Containerized** a legacy Java service using docker, enabling ease of deployment over 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 - Java, Spring Boot, Node.js, React.js, Redux, Kafka, Redis, ElasticSearch, Jenkins, MongoDB*

Ixigo   Gurgaon, India
Software Developer   July 2020 - December 2020
- Engineered an interactive UI for the **business analytics dashboard** using d3.js, capable of generating alerts for business metrics, and reporting any threshold violations.
- Boosted itinerary **webpage performance** with lazy loading DOM and react memoization, resulting in quicker checkouts, higher customer conversions, and a Lighthouse score surge from 78 to 95.
- *Technologies - Javascript, Jquery, NodeJS, ReactJS, Apollo + GraphQL, StoryBook, Jest, Babel, d3.js, MongodB*

PROJECTS

ReSerVent Notification Service
- Developed a notification **microservice** for ReSerVent - A room booking and event management portal. The microservice is easy to plugin and call, **handling 1K notifications** per second.
- Made use of **design patterns** to reuse code modules and set up multiple communication channels (email, SMS, app) with the least lines of code.
- Integrated **Kafka** queue and bulk notification functionality for parallel processing and faster delivery.
- *Technologies - AWS Lamda, AWS Dynamodb, Kafka, Mailgun API, Spring Boot*