

# Nipun Harihare Sud

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## Experience

Jan 2025 - Present

**Second Shop, Remote** – *Principal*

April 2022 - present

**Sardine AI, Remote** – *Tech Lead (Payment & Compliance)*

- **Demonstrated ownership of complex, loosely defined business problems**, driving clarity through in-depth domain analysis to define scope, technical design, and implementation.
- **Collaborated with business stakeholders** to identify and prioritize short- and long-term initiatives, aligning and mentoring developers to seamlessly incorporate these into scalable code solutions.
- **Led the creation of a new compliance vertical** at Sardine, positioning the company to sell to large banks and significantly expanding the sales pipeline. Currently supporting 11 prospective customers in the pipeline awaiting this capability.
- **Developed Level 2 case management tools** for escalations, including activity reporting and timers, ensuring all alerts are resolved within regulated timelines.
- **Built automated FinCEN filing functionality**, one of the few in the industry to offer this due to its complex integration requirements.
- **Enhanced developer efficiency** by designing an admin dashboard, reducing on-call involvement from 2 hours/day to just 15 minutes/day.
- **Improved payment rail architecture**, resolving issues such as double-spending, payment retries on downstream failures, and enhancing the checkout experience.
- **Championed the adoption of Sorbet and Domain-Driven Design (DDD)** through internal talks, documentation, and hands-on coaching, driving adoption among a growing team of 7+ engineers.
- **Introduced best practices for asynchronous and event-driven architecture**, leveraging Sidekiq for background processing with scalable, efficient system designs.
- **Mentored team members and improved engineering practices** by providing detailed PR reviews, pair programming sessions, and creating design documents to clarify vision and objectives.
- Led key projects including:
  - **Integration with Autograph IO** to expand system capabilities.
  - **Enabling card processing** by integrating with Checkout.
  - **Partnering with liquidity providers** such as FTX and Fortress to enhance financial system functionality.
  - **Automated Filing** via FinCEN

**Shopify, Remote** – *Developer*

- Part of the core team responsible for building a B2B product offering for merchants. Additional vertical in Shopify that enables merchants to sell to other businesses and wholesaling.
- Core member of a development team responsible for better managing customer data by allowing searchability and tools to de duplicate customer data.
- Additionally worked on building label purchasing services that integrated with Shopify core and USPS.
  - We supported purchasing 150k labels during black friday.
  - High uptime (99.99) vs 3p that allowed us to have better performance and monetary savings. These were passed on to the customers.
- Responsible for maintenance to support self -shipping platform on Shopify. Identified bottlenecks and proposed moving label purchase from sync to async process.
- Technologies used – Ruby, Rails, Sidekiq, Elastic, GraphQL

Aug 2017 - Oct 2019

### **Madaket Health, Cambridge – *Team Tech Lead***

- Leading efforts to develop, maintain and support Madaket's EDI enrollment module - A SaaS based platform, that allows providers to enroll with payers, helping reduce administrative costs and time required to enroll.
- Responsible for leading, managing and growing a team of software developers across locations to drive innovation and build a high-quality product that delight customers.
- Collaborating closely with peers and c-suite executives to execute on company vision and help scale the organization.
- Team player and a coach – providing mentorship, guidance, effective feedback and technical leadership
- Actively identify platform and process improvements – enabling autonomous development, faster and continuous delivery.
- Drive technical decisions, collaborate closely with product /QA and act as a scrum master to run and deliver on a two week sprint.
- Technologies used – AWS, Linux, Java, Spring, REST, MVC, MySQL, JavaScript, jQuery, maven, Jira, Bitbucket, Requirement Analysis

Jul 2016 - Jul 2017

### **Madaket Health, Cambridge – *Senior Software Engineer***

- Built Madaket's credentialing platform from scratch which allows users (Providers/Admins) to enter provider data and enables users to attest provider information on the platform; allowing providers to be credentialed at a much faster pace as compared to the existing manual process.
- Worked on the full stack to build - front-end views, controllers for rest-based APIs, services to manage business logic, repositories for database access and SQL queries for database schemas.
- Parallely, worked on breaking monolithic EDI enrollment web app into different RMI based micro services that could be shared between CRED and EDI product lines.
- Improved performance and quality by optimizing queries and adding unit and integration test cases.
- Work closely with the service delivery and product team to identify and fix critical issues to reduce impact on our client and improve processes.
- Implemented log aggregation tool using elastic Search, file beat and Kibana to aggregate logs from different servers which can be monitored by a non-engineer
- Technologies used – AWS, Linux, Java, Spring, REST, MVC, MySQL, JavaScript, jQuery, maven, Jira, Bitbucket

Feb 2015 - Jun 2016

**Genospace, Cambridge** – *Senior Software Engineer*

- Designed a PDF building service for Full View – platform thinking; leading to faster turnaround time. Optimization - reduced PDF generation from 3 days to 1 day.
- Architected Research Gateway, a business analytic tool, used by physicians to derive meaning from raw data sets. Provided support for large datasets (up to 15 million records) and optimized response times to achieve less than 3 seconds for a request to process.
- Represented Genospace in annual “connectathon” organized by American Society of Clinical Oncology (ASCO).

Jul 2012 - Feb 2015

**Fidelity Investments, Durham** – *Software Developer*

Jun 2011 - Nov 2011

**Xerox, Rochester** – *Intern***Education**

2010 - 2012

**Rochester Institute of Technology, Rochester, Ny** – *Ms Computer Science*