

SURABHI MENDIRATTA

SENIOR SOFTWARE ENGINEER | FORWARD DEPLOYED ENGINEERING | FULL-STACK & BACKEND SYSTEMS

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SUMMARY

Senior Software Engineer with extensive experience designing and operating backend services, APIs, and distributed systems. Led the Polaris OFNS integration, delivering end-to-end order processing with Angular, C#, .NET and AWS, cutting manual errors. Architected the Showtimes platform on Node.js and Kubernetes, ensuring high availability and performance under load. Ready to apply proven full-stack and cloud expertise to drive reliable, scalable solutions for the organization.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C#, Java, Python, SQL, HTML, CSS

Frontend: React, Next.js, Angular

Backend & APIs: Node.js, Express.js, .NET, ASP.NET Core, REST APIs, microservices, third-party API integrations

Cloud & Data: AWS, S3, EC2, Lambda, Kubernetes, Docker, SQL Server, PostgreSQL, Sequelize, Redis, distributed caching

AI: Generative AI, RAG, LLM integration, OpenAI APIs, AI-assisted developer tooling

DevOps: Playwright, Jest, GitHub Actions, Travis CI, CI/CD

Engineering: Distributed systems, system design, API design, reliability, scalability, production debugging, Agile/Scrum

PROFESSIONAL EXPERIENCE

NYC Public Schools | *Senior Software Engineer*

2026 - Present

- Owned the Polaris OFNS integration end-to-end, translating business workflows into production solutions using Angular, C#/.NET, SQL Server, and REST APIs, streamlining order processing and reducing manual errors.
- Designed and implemented integrations for authentication, database workflows, FAMIS, validation, testing, troubleshooting, and deployment support using Kubernetes, PostgreSQL, Lambda functions, and API design principles; collaborated with product owners and engineering teams to clarify ambiguous requirements and resolve integration issues, improving system reliability and decreasing defect rates

Kargo | *Senior Software Engineer*

2017 - 2025

- Architected and owned the Showtimes platform end-to-end, building a scalable Node.js/Express backend with Redis, multi-layer caching, resilient fallbacks, conditional HTTP requests, and Kubernetes deployments to maintain availability during upstream failures.
- Developed KAILTRA, an internal AngularJS application, building dynamic, data-driven forms and reusable UI components; this enabled faster form creation and reduced user errors while supporting full-stack functionality and deployment in Kargo's containerized environment
- Built the Retail API and product-data integrations for Walmart, Best Buy, Kroger, and Dollar General, designing external-feed ingestion, database persistence, webhook-triggered imports, and 10-minute cache refresh/rotation workflows; this kept product data fresh and improved ad relevance for retail partners
- Built AngularJS/Angular and Node.js-based internal applications for ad preview, validation, tracking, and campaign-management workflows, developing reusable UI components and backend integrations to streamline ad creation, testing, and operational workflows.
- Led development of Kargo's Innovation Tag and contributed to shared Ad Tag libraries, building reusable JavaScript infrastructure for runtime script injection, centralized macros and event tracking, and AWS-hosted bundles used across multiple advertising formats.
- Developed interactive games, rich-media ads, and responsive ad formats across desktop, mobile, and CTV using JavaScript, React/Next.js, HTML, and CSS, partnering with product, design, creative, and QA to launch campaigns across platforms.
- Built and evolved demo.kargo.com using React and Next.js, recreating live publisher environments with interactive workflows to configure, preview, and validate ads across desktop, mobile, and CTV, streamlining stakeholder testing and customer demos.
- Developed KOALA, an internal Chrome extension for testing live ads on publisher pages; built Playwright/Jest browser automation and regression frameworks and maintained GitHub Actions, Travis CI, Docker, and Kubernetes workflows, which automated testing pipelines and improved release reliability
- Built an internal Generative AI developer tool using Puppeteer, React, and LLM-assisted code generation to analyze websites and generate React-based representations, automating previously manual engineering and validation workflows.
- Provided technical leadership across multiple initiatives, shaping solution architecture, technical design, code reviews, complex debugging, and production issue resolution; partnered with product, design, engineering, and business stakeholders to evaluate requirements and trade-offs, and mentored engineers and summer interns, which accelerated project delivery and enhanced code quality

SportsYou | *Web Developer*

2012 - 2016

- Developed full-stack features for a social sports platform using Angular, C#, and RESTful APIs, set up CI/CD pipelines on EC2, and performed production debugging; the enhancements improved user engagement and reduced page-load times

Larsen & Toubro | *Software Developer*

2009 - 2012

- Developed Java-based engineering and reverse-engineering tools for automotive/off-highway projects, configuring Scania vehicle field-testing hardware, automating VM resources, and creating EMI testing diagnostics, which streamlined testing workflows and reduced setup time

LEADERSHIP & COMMUNITY

Harmony Power Foundation | *Community Outreach Manager (Volunteer)*

2026 - Present

- Lead outreach and partnership development with school districts, educators, community leaders, and public officials.

EDUCATION

Master of Science, Computer Science

Aug 2014 - Dec 2015

New York Institute of Technology (GPA: 4.0)

New York, NY

- Achievements:** John J. Theobald Graduate Achievement Award

Bachelor of Engineering, Electronics Engineering

May 2005 - May 2009

Nagpur University (GPA: 3.7)

India