

Sush Kudari

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Overview

Frontend Software Engineer with 3+ years building scheduling and conversion experiences at scale (14M users). I partner closely with Product, Design, and Engineering to ship experiments, reduce risk in legacy refactors, and improve quality through stronger testing, analytics, and monitoring. Seeking a frontend role with opportunities to grow into full-stack ownership.

Education

M.S. Electrical Engineering | Signals & Image Processing | University of California, San Diego (UCSD)

2019–2021

B.S. Computer Engineering | University of California, San Diego (UCSD)

2015–2019

Core Skills

Languages: Javascript, Typescript, Java, Python, MATLAB

Frontend: React, NextJS, Apollo, ChakraUI, A/B Testing, Accessibility (a11y), Localization (i18n)

Testing: Test Driven Development, Jest, React Testing Library (unit), Cypress (e2e), Selenium

Backend: REST, GraphQL, SQL, API requirements & design

Tools: JIRA, Datadog, Mixpanel, LaunchDarkly, Snowflake, Github Workflows, CircleCI, Gemini, ChatGPT, Github Copilot

Experience

Spring Health | Software Developer II

Jun 2022 – Present

- **Led large-scale refactor** of appointment scheduling modal (high-traffic scheduling surface), modernizing architecture and improving maintainability and experiment velocity.
 - cutting code LOC **-40%**, by decomposing into a modular architecture and introducing contexts.
 - scaling automated testing **+400%** improving coverage to **~86–92%** across branching logic
- **Developed workflows** to guardrails patterns to discourage unclean code growth in oversized files and reduce long-term maintainability risk
- **Led product experiments end-to-end**—translated PRDs into technical plans, JIRA planning, partnered with Design/PM on UX and edge cases, implemented multiple user facing feature-flagged experiences (LaunchDarkly), and shipped safely with staged rollouts and QA/test plans.
- **Built user-centered signup and scheduling flows** with a strong focus on clarity, accessibility, and reducing friction—iterating based on QA feedback, edge-case discovery, and real-world behavior in production.

Accel Robotics | Full Stack Intern → Systems Engineer → Software Engineer

Jun 2020 – Jun 2022

- **Built an internal shopper behavior analytics dashboard** tracking time in store, items purchased, and average cart price; delivered actionable insights to stakeholders.
- **Developed 3D shopper traffic heatmaps** using multi-sensor hardware inputs (ceiling/entry cameras, sensors), translating raw device signals into interpretable spatial analytics.
- **Defined and documented API requirements** for data pipelines; partnered across software/hardware to ensure instrumentation, data quality, and downstream usability.
- **Created UI for internal “test-shopper” tool** to simulate shopping missions, aggregate sensor data, and validate system accuracy with pass/fail outcomes.
- **Facilitated software + hardware** test plans prior to launch to reduce field issues and improve operational readiness.

Scripps Institution of Oceanography | Research Engineering Volunteer

Oct 2019 – Jun 2020

- Worked on embedded systems for benthic cameras and contributed to field-ready reliability improvements.
- Used MATLAB for signal/image processing to analyze phytoplankton motion and tracking.
- Processed point clouds to map seafloor / benthic environments in La Jolla (San Diego).

American Express | Software Engineering Intern

Jun 2019 – Aug 2019

- Built a performance testing tool (Python + Locust) to simulate user traffic and evaluate system behavior under load.
- Fixed React UI issues and improved user experience quality through targeted bug fixes.
- Strengthened Java debugging skills through production-like issue investigation and iterative fixes.

ServiceNow | Software Engineering Intern

Mar 2018 – Jul 2018

- Implemented a mechanism to override Java two-way SSL redirection behavior for improved reliability/security in constrained scenarios.
- Contributed to features improving customer information security and addressed UI bugs impacting usability.

Echo Healthstream | Software Development Intern

Jun 2017 – Sep 2017

- Built automated testing tools using WinForms; created an internal mini HTML library for reusable UI/content generation.
- Contributed to MVC web applications, delivering internal webpages and tooling improvements.

Personal Projects

- **Stoic Stocks** React + Next.js app that allows multiple friends to “paper-trade.” App was used in a “Wolf of Wallstreet” party by 10–12 friends. Origins began in 2023 as a HTML single page application that only ran on local host. Redone, in 2025–2026, this work showcases foundational React, Next.js and some fullstack skills.
- **Sewer Plan Checker** AI-powered semantic and vision analysis of multi-unit sewer plans. Script should be able to take in a sewer plan set and a specific city's guidelines on sewer plan requirements and output all the violations that a city engineer would flag. Should detect city code violations, augments GIS data, and delivers instant feedback to civil engineers.