

Samir Lama

📍 Chicago, IL, 60607 ✉ samirllama@gmail.com in samirlama-dev 🌐 samirllama

Experience

Senior Software Engineer

June 2022–May 2025

bp (British Petroleum)

Chicago, IL

- Collaborated with quantitative researchers to prototype and integrate SciChart heatmaps and time-series explorers—reducing analysts’ data-drill time by 30%.
- Developed analytics dashboard(React, TypeScript) for real-time trading data (100K+ ticks/sec), leveraging virtualized rendering to cut UI latency by 25%.
- Authored front-end architecture guidelines and a reusable component library(React, Material UI), boosting cross-team development velocity by 40%.
- Optimized performance for data-intensive dashboards (React, D3.js) by leveraging techniques such as buffering/throttling of data updates (RxJS for data pipelines) and list virtualization, ensuring highly responsive UI at scale.
- Built a high-throughput AWS backbone (Lambda, ECS, RDS, SQS) to ingest and preprocess large market data feeds, cutting end-to-end data-processing time by 95% (16.3s → 0.8s).
- Led firm-wide code reviews and paired workshops, facilitating testing and CI/CD roll-outs (Docker, Kubernetes, Jenkins) that supported 99.99% uptime across trading and risk applications.

Lead Front-end Engineer

Dec 2021 – Jun 2022

Wells Fargo

Chicago, IL

- Designed and launched credit-limit dashboard (React) handling 500K+ accounts, using virtualization and memoization to keep render times under 200ms.
- Built a reusable UI component library (React + Material UI) with strict accessibility standards, accelerating cross-team feature roll-outs by 40% while maintaining consistent branding and performance.
- Collaborated with credit-risk analysts to visualize portfolio health metrics, building interactive D3.js prototypes that slashed manual report generation time by 30%.

Full Stack Engineer

Nov 2020 – Dec 2021

Dealer Inspire

Chicago, IL

- Led development of a cloud-native SaaS platform (React, TypeScript, Redux) serving 4,000+ enterprise clients;
- Architected responsive, low-latency UI widgets that maintained <150ms render times under heavy data loads.
- Built an interactive, data-visualization dashboard(D3.js) for real-time operational metrics, enabling cross-team stakeholders to identify trends and anomalies 30% faster.
- Deployed microservices on AWS (Docker, Kubernetes), achieving 99.9% uptime and autoscaling for 10K+ concurrent users.
- Supported junior engineers in adopting modern frameworks such as React, Redux, and Node.js, promoting code quality and advanced web development techniques.

Software Engineer

Expedia

Feb 2020 – Oct 2020

Chicago, IL

- Developed intuitive, data-driven mobile booking components with React, increasing conversion rates by 15% based on user behavior analysis.
- Integrated secure, third-party payment processing services (e.g., Stripe, PayPal) into high-volume e-commerce applications.
- Integrated real-time REST APIs, reducing latency from 800ms to 300ms.
- Optimized bundle size (code-splitting, lazy loading) to improve first-paint metrics by 30

Lead Software Engineer

Nexient

Dec 2018 – Feb 2020

Ann Arbor, MI

- Architected React/Node.js dashboards for 100K+ records with virtualized tables (<200ms renders).
- Optimized PostgreSQL (100K+ tx/day), cutting query times 50% via indexing & partitioning.

Software Developer

Domino's Pizza Enterprises Limited

Jan 2015 - Dec 2018

Ann Arbor, MI

- Designed, developed and analyzed A/B tests on the e-commerce platform serving millions of daily users, optimizing conversion funnels to increase completed orders by ~30%.
- Developed Web-socket powered live-order components, detecting spikes within seconds.

Core Skills

Languages: Modern JavaScript, TypeScript, HTML5, CSS3, Python, SQL, Go

Frameworks & Libraries: React, React Native, Next.js, Node.js, Material UI, D3.js, SciChart, GraphQL, Redux, FastAPI

Cloud & Infra: AWS, Azure, Docker, Terraform, Kubernetes, GCP

Databases: PostgreSQL, MySQL, DynamoDB, MongoDB, Redis

DevTooling: Github Actions, Jenkins, AWS X-Ray / CloudWatch, Azure Application Insights, LaunchDarkly

Methodologies & Concepts: Agile, TDD, CI/CD, Responsive Design

Awards & Recognition

- **Star of the Month (bp):** Recognized for exceptional contributions, showcasing adaptability and problem-solving in a fast-paced environment.
- **Team Player of the Year (Nexient):** Awarded for fostering collaboration and improving team productivity.

Education

University of Wisconsin

Bachelor's in Finance

Jan 2009 – May 2013

- **Coursework:** Comparison of Learning Algorithms, Data-driven decision-making, Financial data modeling