Randal Sartor

Full Stack Software Engineer

Boston, Massachusetts
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[LinkedIn](#)
[Github](#)
[My Portfolio](#)

Skills

Front-End: Typescript, Javascript, React, Next.js, Angular, Redux, Apollo Client, Jest, Vitest, React Testing library, Cypress

Back-End: Node.js, NestJS, Express, Fastify, GraphQL, Python, Mongo, SQL, Postgres, Postgis, Redis, Elastic, AWS, Firebase, NATS

Development and Deployment Tools: Git, GitHub, Github Actions, Kubernetes, Terraform, Garden, Docker, Snyk, Postman, Copilot, LLMs, Sentry, Flagsmith

Experience

PVcase   **Remote**

Senior Fullstack Software Engineer / Tech Lead   ***May 2025 - Present***

- Partnered with the principal front-end engineer to launch the company's first React application - a project management platform - defining architecture, establishing coding standards, and mentoring teammates transitioning from Angular. Led implementation of major features including dashboards and visualizations, real-time commenting, and data integrations, delivering high-quality code on aggressive timelines.
- Architected and implemented reusable Node microservices, including an ETL framework for Mapbox VectorTile (MVT) data, capable of ingesting and transforming any third-party vector dataset into internal asset models. Designed NATS (event-driven task orchestration), PostGIS (geospatial computation), and Firebase (data persistence) the system powers PVcase's zoning data integration — processing tens of thousands of tiles daily across millions of assets — and serves as the foundation for future geospatial ETL pipelines company-wide.
- Introduced a feature flag system (Flagsmith) across front-end and back-end services, improving release management quality, cadence, and QA processes.
- Collaborated with product leaders to define technical objectives, plan sprints, and guide architectural decisions, ensuring alignment between engineering initiatives and business goals.
- Championed AI-assisted engineering practices like Copilot-assisted code reviews and AI-based test generation, reducing review turnaround time and achieving 100% unit test coverage.
- Established org-wide observability and delivery metrics with engineering executive leadership team to measure development time, identify bottlenecks, and improve team productivity.

Backend Engineer   ***May 2024 - May 2025***

- Developed and maintained backend APIs and third-party data integrations using Node.js and Fastify, improving system reliability and extensibility.

- Authored Architecture Decision Records (ADRs) to document and guide key technical decisions, ensuring long-term maintainability across services.
- Contributed to the company's Angular-based map prospecting platform, integrating datasets and adding functionality for European market expansion.
- Optimized PostgreSQL performance with refined indexing and query strategies on complex geospatial queries, reducing execution times from ~60s to under 2s.
- Built and enhanced Python-based GIS automation scripts for GeoJSON data ingestion into GeoServer and PostgreSQL, streamlining data pipeline efficiency.

Robin Healthcare   *Berkeley, CA/Remote*

Full Stack Software Engineer   *May 2019 - April 2023*

- Led team building a medical scribe training application (React, GraphQL, Nest.js, AWS), cutting onboarding time for hundreds of medical scribes from several months to two weeks. Responsible for the planning, development, and code review of all features and maintenance
- Designed, built and maintained the logic for an E&M billing code calculator which became the company's core intellectual property and increased company's revenue by 5x
- Developed clinic scheduling ETL pipeline using AWS Lambda to synchronize HL7 and FHIR data into the company's databases
- Regular contributor to Nest.js internal GraphQL API, responsible for querying and mutating data and implementing authorization and access control across 10+ services and applications
- Assisted in refactoring multiple production repositories into an NX mono-repo and maintained repositories' package securities and vulnerabilities using Snyk
- Built out front and back-end unit and integration testing suites using Jest and React Testing Library for over 90% test coverage
- Generated weekly medical coding reports of internal records for third party auditors using AWS Lambda and Google Sheets integration
- Built and maintained content and features for Scribe and Physician applications, allowing users to capture data to generate relevant HCPCS, ICD-10 codes, and medical note documentation

Harnas Wildlife Foundation   **Omaheke, Namibia**

Operations Manager at wildlife sanctuary   *May 2017 to March 2018*

- Led animal care-taking and supervised the training and daily protocol of all volunteers working at foundation, including animal introductions, feeding processes, and safety protocols

Fresh Truck   **Boston, MA**

Operations Manager at food-access non-profit   *August 2015 to May 2017*

- First employee for the non-profit start-up and led all aspects of operations, quadrupling company's operating budget from $150K to over $1M and grew from two employees to 10+

Education

Thinkful   **Boston, MA**

Full-Stack Engineering Immersion   *October 2018 - March 2019*
- Learned industry best practices and practical software development standards with a focus on HTML5, CSS3, JavaScript, jQuery, Node.js, React, Redux, and algorithms & data structures
- Created and deployed mobile-first applications while learning new languages and frameworks by collaborating several hours every week with a senior web developer

Le Wagon Coding Bootcamp   **Milan, Italy**

Full-Stack Web Development   *May - July 2018*
- 9-week intensive coding bootcamp learning HTML, CSS, Bootstrap, JavaScript ES2015, SQL, Ggit, GitHub, Heroku and Ruby on Rails. Designed, implemented, and shipped to production a clone of AirBnB

Northeastern University   **Boston, MA**

Bachelor of Arts in Philosophy   *2010 - 2015*

Bachelor of Arts in International Affairs

Minor in Italian