

Andrew Nicholson

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I bring over 10 years of experience consistently driving success in high priority, high impact contexts. In each role throughout my career I have lead by example and mentorship, and continually improved my teams with compounding results. I want to work with great engineers and leaders to create great products.

Work Experience

Founding Engineer / Staff Software Engineer at Rula Mental Health • 12/2021 - 03/2024, remote

- Joined as engineer #3
- Built **foundational services and products**, including a resilient email system, partnership integrations, and web portal products for both patients and therapists
- Drove **cross-functional initiatives** including a process to develop an **SDLC** and an **org-wide reference architecture** based on Domain-Driven Design, Event-Driven Architecture, and Command/Query Responsibility Segregation
- Implemented a Transactional Outbox and Durable Workflow Execution Environment to provide the team with **solutions to widespread distributed systems problems**

Staff Software Engineer at Sift • 01/2021 - 12/2021, remote

- Joined through the **2021 acquisition of ChargeBack**
- Designed and **led development of a new data architecture** to enable flexible product support for customers, **unblocking business scalability**
- **Worked closely with product managers** to shape our low-code business rules platform

Senior Full-Stack React/Ruby on Rails Engineer and Team Lead at Spatial Networks • 03/2020 - 12/2020, remote

- **Led development and took ownership over project success** for a **strategic low-code platform** feature using **Ruby on Rails, React, and Postgresql**
- Provided **technical leadership and mentorship** in the company's **product-focused** engineering team
- Advocated for industry **best practices** around **DevSecOps** and **drove a cultural shift** to adopt new processes in line with those best practices, including **Kanban, automated testing, and CI/CD**

Full-Stack React/C# Engineer at Pluralsight, LLC • 11/2018 – 11/2019 in Salt Lake City, UT and remote

- Joined through the **2019 acquisition of GitPrime, Inc.**
- **Delivered high-visibility, strategic integration** between GitPrime and Pluralsight
- Engineered web applications with **TypeScript, React, Redux, C#, and PostgreSQL**

Full-Stack React/Ruby on Rails Developer at SciMed Solutions, Inc. • 02/2016 – 11/2018 in Durham, NC and remote

- Engineered web applications for clients in agricultural and medical research
- Consistently **delivered high-quality software** for SciMed's biggest clients using **React, Redux, Ruby on Rails, and SQL databases**

Full-Stack JEE Developer at Red Hat, Inc. • 08/2013 – 06/2015 in Richmond, VA and remote

- Contributed to **high priority projects**
- **Mentored** junior developers

Software Developer Intern at Noblis, Inc. • 06/2012 – 01/2013 in Danville, VA and remote

- **Led development** of a Grails web application that displayed results from computations run on a Cray XMT2 supercomputer

Technical Expertise

8+ years - Distributed Systems • Ruby on Rails • Postgres • React • AWS • JavaScript

5+ years - TypeScript

3+ years - NodeJS • AMQP
2+ years - Java
1+ years - Kafka

Personal Projects

systemicity.blog • 06/2024 - present

Technical blog that aims to simplify complex topics in distributed systems and software organizations.

camsizes.com • 01/2020 - present

Rock climbing gear comparison tool, used by many climbers to compare climbing cams made by different manufacturers.

use-observable-reducer • 02/2021 - 03/2021

React hook that creates an RxJS subject around a React reducer function, like redux-observable but for modern React using hooks instead of Redux. I built this because there was not a tool to support using RxJS with the use-reducer hook at the time.

MatchDay • 08/2018 - 09/2018

Meteor web application that displays soccer matches for a given day, without revealing scores. I built this so I could browse which matches were on and watch them from the beginning without spoiling the result.

raspi-temperature-server • 11/2017 - 12/2017

Server and web application for monitoring a Raspberry Pi temperature sensor. I built this to track the temperature of a fermentation closet, so I wouldn't ruin my sauerkraut.

Education

University of Virginia, College of Arts and Sciences • 08/2009 - 05/2013, Charlottesville, VA

Bachelor of Arts, Double Major in Computer Science and Philosophy