

# ROBERT BALICKI

Speaking at **GraphQL Conf** about **Isograph**, a framework for building GraphQL powered React apps.  
**website:** www.robertbalicki.com – **email:** robert.balicki@gmail.com – **mobile:** 408 891 7592

## OPEN SOURCE AND TECHNICAL PRESENTATIONS

- **Past Presentations:** See www.robertbalicki.com for links. "Re-introducing Relay" @ React Conf 2021; "Rewriting Relay's GraphQL Compiler in Rust" @ Tokyo Rust 2023. "Building WebAssembly Apps in Rust using Smithy" @ RustNYC 2019; "Suspense for Data Fetching" @ useReact NYC 2023.
- **Open Source:** Author of **Isograph** (🔗 isographlabs/isograph), a framework for building React apps powered by GraphQL data; **react-disposable-state**, hooks for managing disposable resources safely in React; and **Smithy** (www.smithy.rs), a framework for building WebAssembly apps in Rust. **Relay** (relay.dev) core team member.
- **Organizer of the Rust NYC Meetup.**

## PROFESSIONAL EXPERIENCE

- Nov. 2019 – Apr. 2023 **Senior Engineer, Meta**
- Engineer on the React Data team. Relay core team member. Presented at React Conf 2021.
  - Led the team that built the Relay VSCode extension, a language server that provides go to definition, information on hover, etc. Added transformational new capabilities to Relay, including support for disposable query objects and introducing a typesafe API for updating client state.
  - Landed Relay changes that significantly improved perf (↓ unresponsiveness, ↓ tail latency, ↑ engagement) of high-traffic screens on the Facebook web app.
  - Built cross-team and cross-company consensus about the direction to take Relay, for example building consensus around typesafe updater APIs and how to provide more precise control of network policies.
  - Collaborated with teams working on high-stakes internal refactors, providing technical advice on Relay adoption, schema design and app architecture in weekly cross-team syncs.
  - Substantially revamped internal documentation. Wrote and recorded official Relay class for new hires.
- Aug. 2017 – Nov. 2019 **Lead Engineer, Jetty**
- Developer on the public facing website and app. Focused on infrastructure and code quality: rebuilt the build and deploy process and introduced stronger lint rules, in addition to feature development.
- Feb. 2016 – Jul. 2017 **Engineer, Hometeam**
- Lead developer on our internal tool, Dash. Converted the code base into modern React code. Set coding standards and guided technical architecture.
  - Streamlined deploys, which went from 30 minutes to 6. Introduced static types for JavaScript (Flow).
- Sep. 2014 – Jan. 2016 **Technical Architect, ADP Innovation Lab**
- As a member of the Dev Leads committee, pushed for unified coding standards across teams, gave presentations on best practices and led a multi-team effort to improve testability.
  - Designed and implemented full-stack solutions, including a wizard framework for generating complex, multi-page UIs from config objects. Wrote a headless wizard framework for comprehensive testing.
- Jun. 2013 – Sep. 2014 **Founder, Modern Benchmark**
- Designed and created Modern Benchmark, a platform for anonymous, automated corporate benchmarking. Businesses can use Modern Benchmark to compare their performance on financial and performance metrics, without exposing their own data, by specifying in advance the analysis to be done.
  - Architected and implemented a scalable and resilient technical stack (Angular, Node, Pandas, AWS).
- Feb. 2011 – Jun. 2013 **Research Analyst, Staffing Industry Analysts**
- Analyzed government data (BLS, BEA, CMS, Census, HRSA) and proprietary survey data; published findings in reports for clients and in articles in SIA's monthly magazine.
  - Completely automated the analysis and report-generation of SIA's monthly revenue trends survey.
  - Presented at monthly webinars and moderated panels at conferences.
- Jun. 2009 – Aug. 2009 **Equity Research Intern, Keefe, Bruyette & Woods**
- Helped build a bank model for the Wilshire Bancorp (WIBC) initiation report by preparing a first-pass forecast. Assisted with 2Q09 earnings, writing summaries of banks' earnings trends.
  - Co-authored a note covering the California budget crisis that was published and widely read by institutional clients and the media.
  - Prepared a California economy primer that discusses leading, coincident and lagging indicators; it was used to frame a baseline macro-economic view for Asian-American banks.
- Jun. 2008 – Sep. 2008 **Research Intern, Madison Capital Management**
- Aug. 2007 – Sep. 2007 **Journalism Intern, Ventura County Star and Gannett News Service**
- Aug. 2006 – Sep. 2007 **General Assignment Reporter, Daily Californian of the University of California, Berkeley**
- Sep. 2005 – May 2006 **News Editor and Reporter, La Voz Weekly Newspaper**

## EDUCATION

- Sep. 2006 – May 2010 University of California, Berkeley. **Bachelor of Arts** with a dual major in **Mathematics** and **Statistics**.