Chris Krycho

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An experienced technical leader, lately focused on programming languages
and frameworks—with experience ranging from modern web platform
infrastructure to computational physics and real-time avionics software.

Work

LinkedIn

Senior Staff Software Engineer   Sep 2021 – Oct 2023

TypeScript domain expert

- Solved the most challenging technical blockers, such as type-safe event tracking.
- Coached LinkedIn's TypeScript track leads.
- Authored a spec for **Semantic Versioning for TypeScript types**.
- Forged consensus for Ember.js open source TypeScript adoption blockers:
  - A novel, backwards-compatible strategy to migrate away from DefinitelyTyped.
  - A new component authoring format, resolving a years-long stalemate.

Flagship web app tech lead

- Led a large team to fix memory leaks in SSR stack, resolving repeated site-down issues.
  Identified and fixed major resiliency gaps in internal Node.js infrastructure.
- Designed a migration strategy away from Ember. (We did not use it—ask me!)
- Mentored a half dozen engineers, ranging in seniority from Apprentice to Staff.

Staff Software Engineer   Jan 2019 – Sep 2021

Transforming a multi-million line-of-code app… without disrupting product velocity.

- Developed the business case for TypeScript, which led directly to company adoption.
- Dramatically improved developer experience by driving adoption of Ember Octane,
  supporting hundreds of developers across dozens of teams through an 18-month effort.
- Delivered key features for **Volta**, an open-source Node toolchain manager written in Rust.

Olo   Jan 2016 – Jan 2019

From individual contributor to a project lead with organization-wide influence.

- Championed responsive redesign of web ordering experience to reduce maintenance
  burden, improve UX, and decrease cost of launching new features.
- Enabled better scaling by designing a tooling-friendly technical strategy for white-labeling.
- Introduced RFCs to the engineering organization for architecture decisions.
- Led the company to adopt TypeScript and fully migrated a 125KLOC code base.
- Founded the Ember.js TypeScript team and led community OSS efforts.
- Shaped company front-end engineering practices and tooling, e.g. test-driven design.
- Collaborated to achieve AA WCAG accessibility.

HolyBible.com   Aug 2014 – Apr 2017

A formative experience: a technical success but a product design failure.

Developed a beautiful interface for reading the King James Bible, with AngularJS, Express and
Node.js, PostgreSQL, and Python for transforming XML… and met *none* of their product goals.

Quest Consultants   May 2012 – Jan 2016

Collaborating across disciplines effectively and transitioning to remote work.

- Improved computational physics models in Fortran, C, and Python.
- Modernized legacy C++ Win32 UIs.
- Implemented and taught the team both VCS (Mercurial) and issue tracking (Jira).

Northrop Grumman   Jul 2009 – May 2012

Learning the basics of software engineering.

Developed avionics software in C, targeting a real-time operating system.

Education

Southeastern Baptist Theological Seminary   Jan 2013 – May 2017

Master of Divinity in Christian Ministry, with honors

The University of Oklahoma   Sep 2005 – May 2009

Bachelor of Science in Physics, *magna cum laude*

Projects

Writing

- Published in both the print and digital editions of *Mere Orthodoxy*.
- A decade-long archive of public writing on software (and many other subjects) at chriskrycho.com, ranging from the deeply technical to the broadly philosophical.

Open Source Highlights

- **Volta**: a JavaScript toolchain manager written in Rust
- **TypeScript in Ember**: first-class support for using TypeScript with Ember.js
- **True Myth**: a TypeScript library with zero-cost `Maybe` and `Result` types

Podcasts

- *New Rustacean* (September 2015 – May 2019): a teaching and interview podcast about Rust
- *Winning Slowly* (January 2014 – November 2021): a podcast about the long view on technology, religion, ethics, and art, cohosted with Stephen Carradini
- Appearances on *Software Unscripted*; *Rustacean Station*; *Whiskey, Web, and Whatnot*; and *Corecursive*.

Talks

- **The Road to TypeScript** (EmberConf 2022)
- **Keep it Local – Or: (part of) what "reasoning about your code" really means** (EmberConf 2021)
- Don't Go Bankrupt: Managing Technical Costs (All Things Open 2019)
- Rust and WebAssembly (Denver/Boulder Rust Meetup, May 2018)
- **TypeScript and Ember.js – Why and How?** (Ember ATX Meetup, April 2018)
- TypeScript up Your Ember App (EmberConf 2018)
- **Becoming a Contributor** (Rust Belt Rust 2017)
- *Tolle Lege!* **Designing Readable Bibles with Digital Typography** (BibleTech 2015)