

CHRIS KIRK SOFTWARE ENGINEER

cperryk@gmail.com
chrispkirk.com
cperryk

I'm a software engineer with a decade of experience. I've worked across a variety of problem spaces on teams both large and small, playing critical roles in high-profile projects. My mission is to find the elegant solution in every complex problem.

EXPERIENCE

Lifion by ADP

Senior Platform Engineer

2018 – Present | New York City | Full time

- Designed and implemented a new GraphQL API, backed by TypeScript microservices running in Kubernetes clusters
- Created an API gateway exposing a unified data graph with schema stitching and Apollo Federation
- Lead my team's adoption of TypeScript and GraphQL and consulted for other teams
- Augmented the Lifion platform to support integrations with GraphQL APIs
- Built a sophisticated task management system for implementing new clients, working closely with product owners, designers, and end users in a Scrum process
- Mentored junior devs and gives technical presentations monthly
- Played a key role architecting a critical data processing tool under a tight deadline and leading a team of developers to iterate on it
- Rethought domain models and rebuilt legacy systems, with a focus on test-driven development, multi-paradigm programming, and domain-driven design
- Developed a new end-to-end testing tool in TypeScript

New York Magazine

Senior Full-stack Engineer

2016 – 2018 | New York City | Full time

- Spearheaded the full-stack engineering of The Cut's [homepage redesign](#)
- Single-handedly built a stream-based Node microservice responsible for generating

homepages with Elasticsearch

- Helped introduce event streaming with Kafka
- Designed a dynamic client-side JS dependency analysis and bundling system, reducing response payloads on article pages up to 18 percent
- Contributed to the in-house content platform and its Vue-based page editor
- Built [The Year In Memes](#), a National Magazine Award finalist
- Wrote a data migration tool to transfer thousands of assets across sites
- Contributed to Python, GoLang, Java, and Scala systems
- Oversaw major Elasticsearch and Mongo upgrades

Slate.com

News Apps Engineer

2012 – 2016 | New York City | Full time

- Coded full-stack in JavaScript, using Express and React to make interactive data visualizations, games, and news apps
- Built apps that told important stories about [gun violence](#), [dark money](#), and [gentrification](#)
- Produced some of Slate's most recognizable work, including the [Game of Thrones Graveyard](#) and [Middle East Friendship Chart](#)
- Developed news games, such as the [Gerrymander Jigsaw Puzzle](#), [Friday News Quiz](#), [Electoral Map Quiz](#), and [Starbucks Quiz](#)
- Built Slate's [Gun Deaths](#) project, featured on NPR, MSNBC, and The Daily Show.
- Engineered the [Outrage Calendar](#), a National Magazine Award finalist

- Architected a dynamic quizzing platform for producing [audio](#) and [video](#) quizzes
- Crafted a Node-based desktop email client and chronicled my effort in a [long-form piece](#)
- Managed a junior interactives developer and three interactives interns
- Broke Slate's all-time traffic record with the ["Travoltify Your Name"](#) generator

City University of New York

Adjunct Lecturer

2015 – 2016 | New York City | Part time

Taught data journalism, HTML, JavaScript, and R to graduate students with my own coursework

Freelance Web Development

2007 – 2014 | Part time

Made websites for small businesses, including a national eyeglass repair franchise

Pittsburgh Post-Gazette

News Apps Intern

Fall 2011 | Pittsburgh | Full time

Engineered news apps, including an [interactive timeline](#) of the Penn State scandal

Yahoo!

New Media Intern

Summer 2010, Summer 2011 | Sunnyvale, CA | Full time

Evaluated geoparsing software crucial to product strategy

Evanston Now

News Reporting Intern

Summer 2010 | Evanston, IL | Full time

Covered city council and crime, producing 63 stories, including 11 video stories

EDUCATION



Northwestern University
Graduated March 2012
Magna Cum Laude

- ☒ Bachelor of Science in Journalism
- ☒ Double major in Political Science
- ☒ Took courses on interactive journalism and computer programming
- ☒ Served three years on the *Daily Northwestern* in various editorial, creative, and managerial roles

SKILLS

Javascript	Node	Babel
TypeScript	Streams	Webpack
Node	Jest/Mocha	Browserify
GraphQL	Express	Git
Apollo	Kinesis	Grunt/Gulp
React	Vue	Handlebars
Redux	Docker	MySQL
React Native	Knex	MongoDB
Kubernetes	jQuery	SASS
Elasticsearch	D3	RequireJS
RxJS	Sequelize	HTML Canvas
	TypeORM	AWS

RECOGNITION

- Finalist, Multimedia Feature, National Magazine Awards 2017
- Best Single-Topic News or Feature, Education Writers Association, 2016
- Finalist, Multimedia Feature, National Magazine Awards 2015
- 1st Place, Multimedia Feature, Associated Collegiate Press 2011
- 1st Place, Photo Essay in a Daily Newspaper, Ill. College Press Assoc. 2010

PHP
Python

Golang
R