

# Chris Edgington

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**I am a guy who gets things done. My greatest strength is coming into situations where projects are in trouble, people have left, schedules are behind, etc., quickly determining the “reality” of the project and leading the way out of chaos. Experience at all levels of information technology (from hardware design to large team management) enables me to quickly adapt to new and unpredictable circumstances.**

I have thirty-three years of hands-on development, research, architecture and communication experience in the global software industry. I have deep experience designing and implementing solutions in most modern languages and advanced debugging skills using both high-end debug tools and just plain-old-logging. Doing contract work for over a decade helped me become very adept at quickly coming up to speed on large sets of source code and solving problems within that source code in a short amount of time. I have also developed solid technical writing skills from years of writing technical proposal, design, and research documents. I also have many years of non-technical public speaking and leadership experience.

I started remote working before it was a thing (actually before the internet existed), working as a remote software engineer for 28 years. I love to write and ship great software.

## Skills

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programming devops databases containers debugging optimization async mentoring

**Programming:** Typescript, Javascript, Python, HTML+CSS, Swift, Objective-C, C/C++, C#, Assembly

**Technologies:** React, TailwindCSS, Express, Docker, Bash, Serverless, APIs, Git, Github Actions

**Databases:** MongoDB, Postgres, MySQL

**Platforms:** MacOS, Linux, Windows, NodeJS, Deno, AWS, GCP

## Experience

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### Core Software Engineer, Zinc Technologies

2019-Present, remote

- Owner of ZincAPI, the core technology powering all Zinc products
- Designed and built replacement internal dashboard
- Developed custom mongodb tool that enabled migration from costly host to Atlas, saving \$10K monthly
- Led software team in pursuing and receiving the 2020 MongoDB Innovation Award
- Rewrote a variety of other aging internal tools: invoicing, file-based ordering, log alerting, etc.
- Reverse-engineer major retailer sites as part of implementing ZincAPI order automation
- Developed custom mongodb query extension enabling REST-based access to database from authed browser sessions
- Debug urgent issues with public-facing API and cloud computing providers

**Technologies used:** Python, Typescript, AWS, GCP, Linux, RabbitMQ, Redis, TailwindCSS, MongoDB, Postgres

### Staff Software Engineer, Road-iQ

2015-2019, remote

- Provide overall guidance for software projects and mentoring of other software engineers
- Develop custom tools for engineering workflow optimization, scripts and custom apps
- Lead mobile app design and implementation, built and released apps to stores (iOS and Android)
- Developed mobile, web, and device APIs, integrated into applications
- Wrote custom h264 streamer, custom mp4 packager, multi-platform libraries
- Developed internal tools for documentation generation, time tracking, slack-bots, 3rd-party integrations
- Developed web-based tools for remote IoT debugging, sales order fulfillment, and other functions

**Technologies used:** iOS SDK, React, PhoneGap, Android SDK, C / C++, Typescript, AWS, Nodejs

## **Senior Software Engineer, Delphi Electronics (now Aptiv)**

2011-2015, Kokomo, Indiana

- Developed custom code for controlling high-voltage DC-to-AC inverters on electric vehicle control systems
- Designed and implemented inverter simulator that allowed 90% of software to run without hardware
- Low-level optimization of compiler-generated code, to minimize unnecessary power consumption
- Trained team on how to use static analysis, source control, code quality, and many other architecture topics

**Technologies used:** Python, C / C++, Nodejs, Jenkins, Klockworks

## **Other Interesting Personal and Contract Projects**

- Custom operating system design / development – wrote 64-bit OS from scratch, including assembly startup
- Wrote custom porting layer for open-source networking library to run unmodified in custom operating system
- Led debugging team on McLaren MP4-12C entertainment system
- Staff software engineer for Photodex – [www.photodex.com](http://www.photodex.com) - worked on Windows and macOS software
- Designed custom furnace control system using off-the-shelf industrial controls and SBCs
- Custom javascript tool that uses Airtable, Twilio, and Youtube APIs to alert non-technical subscribers of new videos

## **Shipping Products**

There are many products out in the world that are running code that I wrote, here is a selection of my favorites:

- Road-iQ VDS hardware, Road-iQ Connect iOS app
- McLaren MP4-12C luxury car
- OvaCue Fertility Monitor
- BMW i3 compact EV
- Motorola Q Phone
- Photodex ProShow slideshow software
- TruckPC
- A variety of website and backend servers (including the Zinc API and PriceYak)

## **Education**

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**1988-1990, Wabash College, math and chemistry double-major (pre-medicine)**

**1990-1991, Purdue University, computer science**