

Chirag Davé, Senior Software Engineer

Contact:

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Skills

Go, Swift, Obj-C, C/C++, Metal, GLSL, JavaScript, Python, Linux, High performance computing

Relevant Experience

OurZora, Freelance Senior Software Engineer, March 2023

- Lead refactor to support migration to SwiftUI. Reduced technical debt; improving developer velocity

Technologies Used: Swift, SwiftUI

SunHaus, Consulting CTO/Senior Software Engineer, January 2021 - August 2022

- Established engineering org by setting up development tooling, organization repository. This allowed for a measurable development process
- Transformed company into a software product org through education in product management, writing a job description for PM, and leading interviews to fill that role
- Audited codebase and took initiative on building test infrastructure and documentation

Technologies Used: Swift, Github

Riva Health, Consulting Lead Graphics Programmer, July 2021 - September 2021, January 2022 - March 2022

- Brought GPU pipeline code up to best practices, this increased the performance headroom on the iPhone for future development and chances of FDA approval
- Collaborated with design team to build a real-time animation using shaders that responded to blood pressure readings

Technologies Used: Swift, xcode debugger, Metal

Progrium, Freelance Senior Software Engineer, August 2020, January 2021 - February 2021, September 2023

- Authored opensource project for monitoring .plist configuration changes on MacOS which received 127 stars on Github
- Created MacOS desktop apps in Go using MacDriver library. These apps demonstrated the power of the library to interested developers

Technologies used: Golang, libobjc, XCode, obj-c

Hirsh Group, Freelance Lead Software Engineer, January 2021 - May 2021

- Ported real time audio analysis tool from C to Swift, ensured parity and performance benchmarks using automated tests, and improved performance of Swift implementation by 195%. This code runs in production to this day

Technologies Used: C, Swift, swiftc, x86 assembly language, xcode debugger

Grove (Acquired), Senior Software Engineer, February 2017 - July 2017

- Architected and developed a cutting-edge financial planning tool, empowering financial advisors with autonomy, saving hundreds of developer hours per week by eliminating the need for engineering resources. Transformed the financial planning process by decoupling advisors from technical dependencies, resulting in significant cost savings and increased productivity
- Led the conception and development of a software definable schema tool, empowering swift iteration between financial teams, engineering, and product; facilitated the creation of highly personalized, turn-key financial plans with remarkable efficiency
- Created email system and financial plan archival system, a crucial base to cover as a fiduciary
- Optimized performance of ReactJS form with thousands of form elements by 400%

Technologies used: Python, ES6, Celery, ReactJS, Postgres

Pandora, Senior Software Engineer, January 2016 - February 2017

- Backend Engineer on greenfield search engine used by 74 million users

- Managed team of 9 cross-functional iOS and Android engineers during post-acquisition integration period

Technologies used: Clojure, Elasticsearch, Python, Kafka, Swift, iOS, Obj-C

Rdio (Acquired by Pandora), Senior Software Engineer, November 2014 - January 2016

- Rebuilt iOS app in Swift increasing performance, testability, code quality, and team autonomy
- Implemented Rdio Playlists for Marketing team. This allowed for partners, such as radio station hosts, to create custom playlists on the platform

Technologies used: ReactJS, ES6, Swift, Obj-C

UserVoice, Software Engineer, May 2009 - June 2010

- Created a Rails plugin to generate a text part from the html part of the email on the fly, saving 50 engineering hours a month
- Improved email delivery rate by setting up DKIM, TLS, Reverse DNS, and bounce rate monitoring
- Pioneered on-the-fly CSS inliner for HTML emails. Another developer productivity boost
- Internal URL link shortener for branded links improving observability by 10%

Technologies Used: Ruby on Rails, Javascript, JQuery, CSS

Publications

Video Relighting Using Infrared Illumination 2008 Computer Graphics Forum Vol. 27 Issue 2

Education

2008 University of California, Santa Cruz Bachelor of Computer Science with a minor in Mathematics