Halden Lin

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Recent Experience

Apple | Senior Research Engineer (AI/ML) 2019 - Present

Swift Charts

I was a core contributor in the creation of the Swift Charts developer framework, a declarative framework for authoring visualizations for Apple's devices. I designed and implemented APIs and led the design effort for defaults in the framework. Swift Charts empowers both internal and external developers to add visual data experiences to their applications. It's used in the Apple Weather, Fitness, and Settings apps among many other first and third party applications. https://developer.apple.com/documentation/charts

Charts @ WWDC

To help people learn how to use Swift Charts, a colleague and I wrote and presented a talk on how to design effective charts at Apple's World Wide Developer Conference (WWDC) in 2022. I was also heavily involved in the creation of 3 other chart-related talks that year. https://developer.apple.com/videos/play/wwdc2022/110340.

Human Interface Guidelines for Charts

I led the creation of the Human Interface Guidelines for Charts, Apple's developer facing design guidelines that describe if, when, and how you should use charts in applications. https://developer.apple.com/design/human-interface-guidelines/charts

Interactive Article for the Apple Women's Health Study

I co-designed and developed an interactive data article for the Apple Women's Health Study, aiming to help participants learn more about the study's findings. I created a visualization platform to support the article's bespoke animated visuals. The article was shared with every participant in the Apple Women's Health Study through the Apple Research App. https://awhs-updates.hsph.harvard.edu/cycle-length-variability/

Data Exploration for AI Evaluation

Recently, I've been designing and implementing data exploration tools for Apple Intelligence projects. I built a virtualized data table with Svelte and Mosaic for high-performance browsing of arbitrarily large tabular data.

Education

University of Washington 2015 - 2019

B.S + M.S. Computer Science & Engineering

Select Publications

Dziban: Balancing Agency & Automation in Visualization Design via Anchored Recommendations at ACM CHI 2020

Skills

Languages	UI Frameworks
Typescript / Javascript	Svelte
HTML	React
CSS	D3
Swift	SwiftUI
Python	
SQL	Design Tools
	Sketch / Figma