

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>

Data Exploration Tooling for AI Evaluation

I've been designing and implementing interactive visualization tools for Apple Intelligence projects, supporting model evaluation and model safety teams. As part this effort, I built a virtualized data table for high-performance browsing of arbitrarily large tabular data, packaged into a reusable component with an interactivity API for seamless integration into data UI interfaces.

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/charting-data>

<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/>

Rubrik | Software Engineering Intern (Archival)

2018

Designed and implemented tiered lifecycle management for data backed up to the cloud.

Google | UX Engineering Intern (Search)

2017

Full-stack design and implementation of an internal web application using Google services.

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

Typescript / Javascript

HTML

CSS

Swift

Python

SQL

UI Frameworks

Svelte

React

D3

SwiftUI

Design Tools

Sketch / Figma