

Saagar Jha

📧 @saagarjha

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Skills

Languages

Fluent in Swift, Java

Proficient in Objective-C, C, C++, Bash, Lua, MIPS assembly, Scala, Python, JavaScript

Tools and Practices

Experienced with Xcode, Cocoa Touch, the command line, Unix/Linux, Git, disassembly, code review, Eclipse IDE

Familiar with Cocoa, continuous integration, automated testing, LLVM (Clang, LLDB, sanitizers, etc.), instrumentation, application and binary security, localization, UI/UX design, Apache Hadoop, the network stack

Education

University of California, Santa Barbara

Bachelor of Science Computing, College of Creative Studies

Regents Scholar, College of Engineering and College of Creative Studies Honors

Santa Barbara, CA

Expected Graduation: June 2020

Personal Projects

break (Swift)

App Store, GitHub

Third-party application for accessing grades, assignments, and other school-related materials from School Loop using a reverse-engineered HTTP REST/WebDAV interface. Features significant use of iOS technologies, including 3D Touch, Touch ID/Face ID, Watch Connectivity, Grand Central Dispatch, and custom UIKit controls.

Vulcanize (Swift, Objective-C)

App Store

iMessage application for typesetting and sending formulas generated from the LaTeX markup language.

elevate (C++)

GitHub

Small but generic header-only C++11 library that provides useful extensions to the C++ Standard Library, providing templated implementations of common constructs such as comparison operators, primality and parity checking, pretty printing, additional functional algorithms, and polyfills for newer API such as ranges and type traits.

DarkNight (Swift)

GitHub

Launch agent that synchronizes dark mode on macOS with the activation of Night Shift, using reverse-engineered APIs from the CoreBrightness and SkyLight frameworks.

Experience

Darwin Platform Experience Consultant, SaurikIT

Oct 2018–

Provided architectural and design guidance for Orchid's development efforts on iOS, watchOS, and macOS.

HomeKit QA Tooling Intern, Apple

Jun 2018–Sep 2018

iOS Contractor, Danal

Aug 2017–Sep 2017

Created a low-level networking library and helped integrate it into our clients' apps.

Intern, Unravel

Jun 2016–Aug 2016

Wrote a MapReduce tool to locate and extract log files from the Hadoop Distributed File System for further analysis.

Selected Awards

WWDC Scholarship Recipient, 2017

USA Computing Olympiad Gold Division, 2016

American Invitational Mathematics Examination Qualifier, 2014-2016 (Top 2.5% in US)

USA Physics Olympiad Silver Medal, 2017 (Top 100 in US); Honorable Mention, 2016 (Top 250 in US)

Physics Bowl Division 2 Regional Top Scorer, 2016 (Top scorer in northern California)