

# Saagar Jha

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## Skills

### Languages

Fluent in Swift, Java

Proficient in Objective-C, C, C++, Lua, Bash, 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, localization, UI/UX design, Hadoop, the network stack

## Education

University of California, Santa Barbara

Bachelor of Science Computing, College of Creative Studies

Santa Barbara, CA

Expected Graduation: June 2021

## 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, TouchID, WatchKit, GCD, and custom UIKit controls.

Vulcanize (Swift, Objective-C)

[App Store](#)

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

Pool (Swift)

[DevPost](#)

Ride sharing carpool app based on iOS mapping technologies. Written for the hackathon CUHacks and won second place.

SmartHome (C, Swift)

*Ongoing*

Bluetooth Smart-based home automation system consisting of off-the-shelf Bluetooth-enabled microcontrollers, infrared sensors, and iOS application in a mesh network setup. In preliminary tests reduced ambient household energy consumption by an order of magnitude.

## Experience

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

[Regents Scholar](#), 2017-2021

[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)