



# Christopher Williams

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## EXPERIENCE

### Photon7 as a Visual Production Engineer

*Jan 2024*

- Produced visual effects for Jungle Experience party in Ko Pha-ngan, Thailand.
- Prepared, transported, and installed laser and video projector hardware.
- Calibrated and VJed six laser units with Pangolin software.

### Google as a Software Engineer in Drive for iOS

*May 2020 – Nov 2022*

- Designed, developed, and deployed features for sharing and counter-abuse in Google Drive for iOS.
- Conducted weekly interviews for prospective software engineer candidates to join Google.
- Wrote code in Objective-C, C++, Swift, and other in-house languages.
- Collaborated with the web and Android Drive engineers to align UI design along with specs provided by UX engineers.
- Wrote design documents for upcoming features in Google Drive for iOS.
- Planned development with atomic tasks in weekly sprints.

### Apple as a Quality Engineer in Reality Kit

*Apr 2019 – Mar 2020*

- Supported RealityKit with automated daily API testing.
- Conducted interviews for prospective QA engineers.
- Developed a Swift application to run in a lab of various machines daily.
- Designed and ran testing for SwiftStrike: an AR application shown at WWDC 2019.
- Attended WWDC 2019 to provide technical support to third-party developers utilizing RealityKit.
- Specialized in animation and networking API frameworks for RealityKit.
- Collaborated with other QA engineers on my team and cross-functionally with software engineers, project managers, and technical managers.
- Provided status updates to my manager and team in daily stand-up and weekly one-on-one meetings.
- Drove weekly team meetings by presenting the agenda and ensuring effective use of our time.

### Apple as a Quality Engineer in IMG Graphics & Imaging

*Jul 2016 – Mar 2019*

- Developed a tool and network for storage and retrieval to support automated image testing.
- Wrote tool with Python and network with PostgreSQL and REST API.
- Utilized ExifTool and in-house technologies to parse image metadata.
- Supported several QA teams by enhancing the tool to fit automated testing requirements.
- Identified regressions through UI and API pre-submission and weekly testing.
- Designed and ran feature testing for dark mode introduced in macOS Mojave.
- Collaborated with other QA engineers on my team and cross-functionally with software engineers, project managers, and technical managers.
- Provided written daily reports and met in-person weekly with my manager.

### Treasure as a Full Stack Developer

*Oct 2015 – Jun 2016*

- Developed an ecommerce iOS app with Swift.
- Developed a web crawler written in Ruby utilizing Ruby on Rails to parse metadata from various ecommerce website vendors.
- Collaborated with two software engineers.

Worked part-time during school both in-person and remotely.  
 Apple as a Quality Engineer Intern in IMG Graphics & Imaging *Jun – Sep 2015*  
 Automated video playback quality assurance by analyzing dropped frames with a custom-built tool.  
 Wrote code in Python and Objective-C.  
 Deployed the tool in a lab of several devices running macOS and iOS.  
 Presented the tool and testing results to a board of technical managers and Craig Federighi.  
 Salesforce (Tempo AI) as a Full Stack Engineer *Feb 2014 – May 2015*  
 Developed an Android application to support the pre-existing iOS application.  
 Wrote code in Java.  
 Collaborated with eight software engineers.  
 Worked part-time during school and full-time during summer break.  
 Tempo AI was acquired by Salesforce in May 2015.  
 Tapestry Solutions as a Front End Engineer *Nov 2012 – Feb 2014*  
 Developed desktop software for managing cargo shipments.  
 Utilized Adobe Flex front end and PostgreSQL databases.

## PROJECTS

Gin *Oct 2017*  
 Created a cross-platform app to keep track of the score for two players in the card game Gin Rummy.  
 Wrote code in Swift.  
 Utilized SwiftUI.  
 Micronaut *Jan – Jun 2016*  
 Created a platformer video game written in Swift for Apple TV.  
 Submitted to the Apple TV app store and was accepted within one week.  
 Manipulated sprites and parallax background images provided by a collaborating artist.  
 Wrote a dissertation analyzing the development process.  
 Submitted as my senior project for Cal Poly Computer Science bachelors degree.  
 Baaaaalrog *Jan 2016*  
 Created a cross-platform sprite-based top-down goat chucking video game. Created a cross-platform sprite-based top-down goat chucking video game.  
 Wrote code in Java.  
 Utilized libgdx.  
 Won first place for our location in the annual Global Game Jam hack-a-thon event.  
 Personal Website *May 2015 – Present*  
 Wrote code in Markdown, HTML, and CSS.  
 Utilized GitHub Pages.  
 Designed user interface for both desktop and mobile environments.  
 Occasionally provide updates as my experience accumulates.  
 Japanese Festival *Apr – Jun 2015*  
 Created a real-time interactive 3D video game with an overworld and several minigames.  
 Wrote code in C++.  
 Utilized OpenGL.

Initialized source code versioning control for four developers with Git.  
Submitted as my final project for Real-time 3D Graphics course at Cal Poly.

Deep Beat *Mar 2015*

Created a rhythmic rail shooter game for web written in JavaScript.

Wrote code in JavaScript.

Utilized CreateJS.

Submitted as my final project for Interactive Entertainment course at Cal Poly.

Bunny Shrine *Jan – Mar 2015*

Created an interactive 3D scene of the first-ever 3D scanned object.

Wrote code in C++.

Utilized OpenGL.

Submitted as my final project for Intro to 3D graphics course at Cal Poly.

Attack Vector *Jan 2015*

Created an infinite maze runner game written in C++.

Utilized SFML.

Participated in the annual Global Game Jam hack-a-thon event.

Stikit *Oct 2014*

Created an Android application.

Utilized Chromecast API and JSON data transfer.

Participated in the annual Cal Hacks hack-a-thon event.

## EDUCATION

California Polytechnic San Luis Obispo *Sep 2012 – Jun 2016*

Graduated Computer Science BS with a GPA of 3.2.

Electives: Real-Time 3D Graphics, User Design, Security, HCI, OS, Networks, etc.