

## EXPERIENCE

- Software Development Engineer Intern | Amazon Web Services** 2018
- Co-developed feature that maps customers' CloudFormation requests to SNS resources
  - Wrote smoke tests, integration tests, and unit tests to account for a variety of SNS configurations
- iOS Developer | FORM (Consumer wearables)** 2017 - 2018
- Implemented Onboarding and User Profile wireframes with ReactiveSwift and MVVM
  - Setup architecture to handle [BLE peripherals](#) and HTTP request logic
- Software Developer | Five Three (Tech consulting)** 2012 - 2017
- Built a [cryptocurrency portfolio management](#) service leveraging strategies like arbitrage
  - Maintained ten apps utilizing FB/Google/Yahoo APIs for login/search/maps/ads/query extensions
- iOS Developer Intern | Basecamp (Project management tools)** 2017
- Added support for Spotlight, allowing app to index content for external search
- Software Co-Lead | UBC Sailbot (Autonomous transatlantic sailboat)** 2014 - 2016
- Co-developed software subsystem responsible for avoiding nearby obstacles and weather systems
- iOS/Web Developer | Current Labs (Aquarium automation)** 2015
- Overhauled web front-end for improved usability/responsiveness, testing across dozens of platforms
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## PROJECTS

- Moros 1 & 2 (iOS action role-playing games)** Swift, SpriteKit, SceneKit, Unity
- Orthographic (Moros 1) and perspective (Moros 2), created using native game development frameworks
- Picfluent (Language learning interface)** Swift, CoreML
- Built iOS app that recognizes objects through a neural network classifier and translates users' dialogue
- Obelisk (Commercial real-estate data aggregator)** Python, MySQL
- Designed, built, and deployed app that scrapes real-estate data from a dozen websites using PhantomJS
- Autobot (Omnidirectional drivetrain)** C, Swift, Python, Bash
- Broadcasts Wi-Fi for input from iOS app. Pi diffuses input over serial to Arduino, which sends signals to motor controllers
- Social media scraper (Business analysis tool)** Python
- Produced script that identifies social media profiles belonging to businesses and their competitors
- Warren (Social paper trading application that provides stock recommendations)** Objective-C
- Developed trading algorithms dependent on public APIs (e.g. Yahoo! Query Language) for data
- Witch Wolf Suburbia (2D iOS multitouch platformer game)** Objective-C, SpriteKit
- Client project built in Objective-C using Apple's SpriteKit framework
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## EDUCATION

- University of British Columbia (UBC Chancellor's Scholar)** BSc. Computer Science (2019)
- Courses: ML | AI | Computer Vision | Graphics | Geometric Modeling | Animation | HCI
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## PUBLICATIONS

- [\[Link\]](#) Neanderthal and Denisova genetic affinities with contemporary humans: Introgression versus... *Gene*, 530(1), 83-94
- [\[Link\]](#) Sub-population structure evident in forensic Y-STR profiles from Armenian... *Legal Medicine*, 15(2), 85-90