

Ivan Arellano Maurizi

215-203-2852 | mail@ivanarellano.com | <https://linkedin.com/in/ivanmaurizi> | <https://ivanarellano.com>

Experience

Senior Software Engineer – Flyclops

04/2021 – 12/2024, Remote

Tech Used: Unity, Flutter, Android/iOS, CircleCI

- + Ported networking library from Objective-C to Kotlin, enhancing performance and compatibility.
- + Wrote CI workflows in bash to build a Unity game as a library and integrate it into a Flutter app.
- + Identified and optimized slow startup code by creating a test harness to benchmark app startup.
- + Improved unit tests in Unity by using dependency injection to decouple services from base classes.
- + Setup automated cloud deployments to app stores.

Software Engineer – Diagnostic Driving

12/2017 – 04/2021, Philadelphia, PA

Tech Used: Unity, React, Node.js, Firebase, AWS

- + Led engineering for an NIH funded project to create driver assessment courses made with Unity.
- + Designed and developed serverless email system to engage customers with personalized PDF attachment.
- + Developed back-end validation of driving data using Node.js to report data inconsistencies in Slack.

Android Developer – Tonic Design

01/2015 – 06/2017, Philadelphia, PA

- + Implemented and tested Bluetooth LE features on Android app to sync with a glucose meter.
- + Developed front-end code for OneTouch Reveal, Invokana Tracker, and J&J 7 Minute Wellness apps.

Front-End Web Developer – Free People

08/2014 – 01/2015, Philadelphia, PA

Programmed web page prototypes in Node.js for an upcoming redesign of the mobile store website.

Mobile Platform Developer – BrickSimple

07/2012 – 08/2014, Doylestown, PA

Responsible for web and mobile apps. Created the SF Nutcracker storybook app for Android tablets with the LibGDX game framework in Java.

Education

BA, Visual & Game Programming

The Art Institute of Atlanta

03/2011, Atlanta, GA

Post-Baccalaureate Studies

Calculus 1-2, Linear Algebra, Discrete Math

06/2020 – 05/2022, Philadelphia, PA

Personal Projects

Breakout

In Progress

Recreating Atari Breakout for Pico-8 in Lua

Tree City

09/2017

Created a WebGL demo to walk through Philadelphia and learn about its street trees using Unity and Mapbox.

Pong

05/2017

Recreated as an exercise using C++11/14 and the SFML game framework.

Maya Viewport Shader

03/2011

Developed a CgFX shader that supports real-time rendering of lighting and textures in Maya's editor viewport.

Leadership & Tech Proficiency

- + Trained colleagues on Android development
- + Coordinated monthly tech talks at a startup as a new communication avenue.
- + Exhibition Guide - Natl. Portrait Gallery
06/2013, Washington DC

Languages: Dart, C#, C++, Lua, Java, JS

Media Arts: Maya, Photoshop, Photography

Game Engines: Unity 2023, Unreal 3

Web/Mobile: Android, iOS, Flutter, Node.js

Familiar with OpenGL, Python, React