

Tyler James Pinho

tylerpinho.com

Education

Barrett Honors College - Arizona State University - Tempe, Arizona

Bachelor of Science in Computer Science

December 2016

Certificate in Computer Gaming

GPA - 3.80

Graduated Summa Cum Laude

Languages: C, C++, C#, GML, Java, Python

Web Development: React, ASP/ASP.NET, AngularJS, HTML, CSS, Azure Services, Django

Software/Technology: Unity, SQL Server, PowerShell, Photoshop, Game Maker Studio

Work Experience

Senior Software Engineer - Carvana, Phoenix, AZ

April 2019 – Present

Distributed Applications Developer - Carvana, Phoenix, AZ

August 2016 – April 2019

- Reduced cross-site React Package deployment from 2 weeks to minutes via Package as a Plugin Architecture
- Created Video Player pipeline in React allowing for custom video player options and dynamic content streaming
- Responsible for creating Microservices to automate contract generation, image production, and customer notifications
- Implemented A/B Testing Framework and event metrics to assist business decisions in improving customer experience

Software Development Intern - Carvana, Phoenix, AZ

June 2016 – August 2016

- Authored PowerShell Scripts to inform IT Leads which Azure Services are unneeded to save hosting space and money
- Automated the process of creating a branch, work item, and deploying to Azure reducing time from 10 min to 10 sec
- Assisted in developing and supporting purchase process for buying used cars in C#/AngularJS

Web Site/Software Developer Intern - Mesa Airlines, Phoenix, AZ

May 2015 - January 2016

- Converted and updated employee intranet sites from ASP/VBScript to ASP.NET/C#
- Developed an automated document management system to bridge gap between mechanics and managers
- Created scripts to automate functionality and consistency of databases
- Supported 2600+ employees by writing software for mobile and web environments to address employee issues

Web Site Developer and Presentation Intern - Science is Fun, Chandler, AZ

September 2011 - May 2013

- Developed dedicated website according to employer's specifications using HTML/CSS, JavaScript, and PHP
- Supported STEM education by presenting science, engineering and technology to K-8 students and parents
- Integrated science, engineering and technology through interactive exploration of "Energy in the World Around You".

Game Development/Programming Projects

Last Hymn - Language: C# Engine: Unity Platform: Windows PC

- Procedurally generated rhythm patterns based off of music using Bezier Curves
- Implemented an Event-Queue system to monitor and automate NPC, Train, and Game schedules
- Used shaders to create unique Battle Transitions, Sprite Shadows, and Tiling System and reduce CPU load

Project PhysX - Language: C# Engine: Unity Platform: Windows PC

- Educational level-based 3D Physics Sandbox where the player has the ability to alter the world's physics to solve levels
- Implemented path prediction that updates based on player's actions in changing force, mass, and size of the cannonball
- Created supplemental educational material for teachers and parents to use with their students

Piano Panels - Language: C# Engine: Unity Platform: Android Devices

- Randomly generated 2D rhythm game with dynamic difficulty settings for all skill levels
- Focused on memory management and optimization on a variety of mobile devices
- Released on the Google Play app store for all Android devices both mobile and tablet

Get Rec'd - Language: Java Platform: Windows PC

- Setup a system to aggregate reviews from the Internet and recommend new media to the user
- Takes into account user's likes and dislikes with prior media when generating list of recommended media
- Ability to easily save, edit, export, and import lists built into the application

Extracurricular Activities

- ASU Software Developer's Association - Released 6 games as the Game Development Project Manager
- Studied Abroad in Japan during Summer 2014 with a focus on developing real world simulation software
- Founder for Mu Alpha Theta Chapter of the International Honors Math Society; Attended conferences 2011 & 2013