Tyler Befferman

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Skills

Expert in (8+ years): C#, Unity3D
Proficient in (2-4 years): C++, Java, SQL, Typescript, PHP

Experience

Tools Developer - Momentum Mod Team   October 2022 - Present
- Created a C# tool for converting levels from Quake 3 Arena to Source engine
- Received a license from Valve in order to make modifications to the Source engine's renderer and game logic (C++)

Lead Developer - Turbo Force   December 2012 - October 2022
- Solo development project made with Unity3D and released on Steam Playtest
- Created anti-gravity vehicle controller with custom physics and collision detection
- Level editor uses Bézier splines to procedurally generate race tracks
- Implemented networked multiplayer using algorithms that reduce bandwidth, latency, and jitter
- PHP/MySQL back-end for leaderboard system and replay sharing
- Custom glTF importer tool for importing 3D assets at runtime
- 50,000+ line codebase with clean code, SOLID principles, and design patterns

Software Developer - Mortgage Cadence / Denver, CO   January 2020 - December 2021
- Full stack web development on a large scale code base for loan origination services
- Replaced legacy Silverlight software with AngularJS based web application
- Utilized GraphQL extensively to communicate with C#/T-SQL backend
- Created automated unit tests to replace manual testing for loan compliance

Software Engineer - Valiant / Woodbury, NY   August 2016 - June 2018
- Developed and maintained ASP.NET MVC based payroll software using test driven development
- Optimized a complex security permissions system, resulting in significantly improved performance on most actions within the application
- Created and enforced coding standards and performed code reviews
- Utilized tools such as RabbitMQ, Redis, Xamarin, Firebase, Entity Framework, SQL Server, Code Generation, and Atlassian Stack

Research Assistant - Hofstra University   Fall 2014 - Spring 2016
- WISEngineering project sponsored by the National Science Foundation
- Implemented a distributed short answer grading system (Java, Hadoop, ZooKeeper)
- Created Android shell scripts for automating app installation on new devices
- Implemented user behavior tracking by monitoring keyboard and mouse events with jQuery, PHP, and MySQL
- Used Google Analytics API to monitor web traffic

Education

Hofstra University - Hempstead, NY   September 2012 - May 2016
Bachelor of Science, Computer Engineering
- GPA: 3.82
- Dean's List: All semesters