David Yu

Experience	**Software Engineer, Server Features**, Blizzard, Irvine, CA	2018 - present

- Supported live service title: Overwatch
- Implemented sharing custom game settings as part of Workshop feature
- Updated existing features to support Role Queue: LFG, SR decay, leaver penalty, skirmish
- Extended customer service API and anti-cheat reporting

Software Engineer, Tools and Features, Visual Concepts, Novato, CA   2013 - 2018

- Shipped titles: NBA 2K14 - NBA 2K19
- Co-led maintenance and development of in-game UI tool, build, and runtime

    - Extended C# editor and pipeline for usability and improved performance
    - Extended runtime UI widget features and API in C++

- Maintained and extended internal art and databuild tools, including:

    - Maya material editor
    - Maya character clothing and accessory editor
    - Runtime shader parameter tweaking tool

- Co-led studio-wide upgrade from Maya 2016 to Maya 2018
- Led PC mouse UI workflow improvements for NBA 2K16 - 2K18
- Owned complex in-game player editor and arena editor UI for NBA 2K14 - 2K18

Software Engineer in Test Intern, Microsoft, Bellevue, WA   Summer 2012
- Implemented UI automation testing in C#

Projects   **Robinson**: real-time renderer in WebGL and TypeScript for prototyping rendering techniques.
GML: vector math library for real-time applications in TypeScript, C++, and Haxe.
Slowpoke: raytracer in Haskell and C++.
Artemisx: Haxe port of Artemis entity component system framework.

All project source code available on github.com/davidyu

Education   B.S. in Computer Science, Yale University, New Haven, CT   2013

- Thesis on Software-Defined Networks advised by Richard Yang and Andreas Voellmy
- Advanced Topics in Computer Graphics
- Compilers and Interpreters
- Computer Networks
- Operating Systems

Skills   **Proficient in**: C (99) and TypeScript
Comfortable with: C#, C++, Haskell, Haxe, JavaScript, MEL, Python
Design: Flash, Illustrator, Photoshop, Blender
Tools: Git, Perforce, Vim, Visual Studio

Interests   Overwatch, basketball, anime, weightlifting

Misc.   Canadian citizen; eligible for work with TN status