Terrance Niceheiol

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Work Experience

(Co-op evaluations: Outstanding/Excellent)

- Replaced a prototype chat backend with a chat micro-service, to separate chat performance concerns from the main API
- Rewrote the web dashboard using React for feature parity with the mobile clients
- Updated SMS copy to be more user-friendly and clear, resulting in the largest increase in SMS users installing the app in years
- Consolidated old cross-platform prompt systems into a flexible, easy-to-extend system that's been adopted by other teams successfully

remind.com/about

- 🥅 Jan. 2015 Aug. 2015, May 2016 Aug. 2016
- A Ruby, Go, Javascript, Java
- 💤 Rails, DynamoDB, React.js, Android

A Intributing App (Co-op evaluations: Excellent/Excellent)

- Developed the iOS frontend of a prototype poker app focusing on playing with friends, which
 eventually became <u>Pineapple Poker</u>
- Created and improved analytics tools on the metrics team in order for them to filter information faster and be able to see a user age breakdown for specific days
- Developed frontend features for a 3D racing game on Android, including an interactive map, and the movement/drifting animation for the cars using GLES 2.0

athinkingape.com/about

- May 2013 Aug. 2013, Jan. 2014 Aug. 2014
- A Objective C, Python, Javascript, Java
- 💤 iOS, Django, Android, GLES 2.0

Personal Projects

Geometry Wars Glore

- Created a clone of the Xbox Live Arcade game Geometry Wars to learn how effects like the deformable grid, and bloom are implemented
- Particles are simulated on the GPU to have hundreds of thousands without slowdown
- Created a dynamic music system that plays more intense music when there's more enemies

@ eat.sleep.build/Projects/GeoWarsClone

- voutu.be/Xv-3VLCFOQM
- 🛅 Sept. 2013 Dec. 2013
- **入** Scala
- 💤 LWJGL, OpenGL, GPGPU

ATA Goop Hackethon Camp

- Created a 2D multiplayer deathmatch platformer for a 48-hour hackathon at A Thinking Ape with two other programmers, and two artists
- Added the ability for players to phase through walls to add variety to the combat
- Responsible for movement and level collision, including wall jumping and dashing, and graphical effects like bullet trails and the desaturation effect when phasing through walls

@ eat.sleep.build/Projects/ATAHackathonGame

- voutu.be/y7BLvpp1HIY
- 🧮 A weekend in April 2014
- → Java
- 🚣 libGDX, OpenGL

Defered Renderer with SSAO

- Created a tech demo to learn how to implement some modern graphics techniques
- Implemented normal mapping and specular mapping to make walls look more detailed
- Implemented defered rendering to efficiently render many lights
- Used depth information from the deferred rendering process to create a screen space approximation of ambient occlusion, to have light falloff more realistically in corners

@ eat.sleep.build/Projects/DeferedRenderer

- voutu.be/eJY72rMtFx4
- 🧮 Sept. 2014 Dec. 2014
- **入** Scala
- 💤 LWJGL, OpenGL

must be seen to be see

- Created a Haskell webapp running on top of lighttpd
- Created an Html DSL using monads to programmatically compose html
- Built from a "Hello World" Haskell application into a full website to better understand how other frameworks like Diango and Rails work

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- Mov. 2012 present
- A Haskell
- 🚣 lighttpd

Sehoo

4B Computer Science at University of Waterloo - Expected graduation: April 2017