Terrance Niceheiol

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Work Expertence

(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 major parts of the web dashboard using React for feature parity with the mobile client
- 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 Ruby, Go, Javascript, Java Rails, DynamoDB, Reactis, Android

(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 Objective C, Python, Javascript, Java iOS, Django, Android, GLES 20

Personal Projects

Geometry Wars Clone

- Created a clone of the Xbox Live Arcade game Geometry Wars to learn how effects like the deformable grid, and bloom are implemented
- Coded the particle simulation to run on the GPU in order to have hundreds of thousands of particles without slowdown
- Created a dynamic music system that plays more intense music when more enemies are present

eatsleep.build/Projects/GeoWarsClone youtu.be/Xv-3VLCFOQM

Sept. 2013 - Dec. 2013 Scala LWJGL, OpenGL, GPGPU

ATA Goop Hackethon Came

- 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 in order to add variety to the combat
- Responsible for movement and level collision, including wall jumping and dashing, and graphical
 effects like the bullet trails and the desaturation effect when phasing through walls

eatsleep.build/Projects/ATAHackathonGame youtu.be/y7BLvpp1HIY

Two days 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 in order to efficiently render many lights
- Used depth information from the defered rendering process in order to create a screen space approximation of ambient occlusion, in order to have light falloff more realistically around corners

eat.sleep.build/Projects/DeferedRenderer

youtu.be/eJY72rMtFx4 Sept. 2014 - Dec. 2014 Scala LWJGL, OpenGL

ealslem build

- 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 in order to better understand other frameworks like Django and Rails

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Nov. 2012 - present Haskell lighttpd

Sehoo