Preetham Kesineni

University of California Santa Barbara - Class of 2021

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EDUCATION

University of California Santa Barbara —
Graduating: Dec 2020

Computer Science – Bachelors of Science

EXPERIENCE

Research Assistant, Meta Lab —   September 2019 - February 2020
- Developed research tool utilized to detect user reaction to small visual stimuli to measure correlation
- Light Development of ML research tool for usage to collect user data on visual stimuli to analyze The Big Five of Personality among test subjects
- Relevant languages/frameworks: Python3, Psychopy

Junior Developer, ThankQ Net —   September 2016 - March 2017
- Ported mobile application from Flash to native while squashing 80% of visual bugs in legacy application
- Built application to specifications of the UX team with guidance from a senior developer
- Relevant languages/frameworks: Swift, Storyboard, Ionic, Flash

PROGRAMMING PROJECTS

Pixel Swap Game -   August 2018 - April 2018
- iOS Sprite kit based game involving a character that must switch between two sides (top and bottom) of the screen in order to avoid obstacles
- Utilized Xcode built in physics engine in order to simulate gravity on one side and inverted gravity on the other side
- Relevant languages/frameworks: Swift, Spritekit, Gameplaykit

Budget Visualizer -   March 2020 - May 2020
- NextJs web program structured to measure and analyze users' monthly budget spending allowing the user to set and track goals to improve their financial budgeting skills.
- Formed in a team oriented atmosphere utilizing principles of version control, divide and conquer programming, and Agile software development
- Relevant Languages/Frameworks: NextJs, javascript, Heroku, Auth0

Weatherly iOS -   March 2018 - April 2018
- Integrated with weather data from Wundergrounds weather API and displays a ten day forecast in a user friendly view
- Reformats data using JSON Decoder to generate UITableView in app
- Relevant Languages/Frameworks: Wunderground Weather API, Swift, StoryBoard

Pi-Spy Camera -   June 2017 - July 2017
- Door-mountable security camera that uses motion detection to monitor activity and notify user; runs on Raspberry Pi
- Motion detection algorithm detects differences in low resolution images captured in five second intervals and alarms on significant changes in pixel counts
- Relevant languages/frameworks: Twilio, Python 3, Bash

Portal AR iOS -   January 2018-February 2018
- Created a virtual door to a digitally rendered room viewable through the iPhone Camera
- Maps the floor for flat surfaces with ARkit and produces an AR room model in front of the user
- Relevant languages/frameworks: ARkit, Swift, Storyboard