WEBSITE
tyleryep.com
github.com/tyleryep

# TYLER YEP

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## EXPERIENCE

### BRIDGEWATER INTERN
June 2019 – August 2019
Full-Stack Developer

Created features for a domain-specific language built on Scala used to author investment logic. Created an Autotext feature to explain claims in financial reports and use new data to generate new reports. Used React.js and a custom Scala backend.

### INTUIT INTERN
June 2018 – September 2018
Full-Stack Developer

Developed an automated UI test framework for Payroll teams. Designed reliable click/input functions using XPath selectors, integrated framework with Jenkins and backend service tests, and built a dashboard app to aggregate build results using React/Node.js.

### CS 198 SECTION LEADER
April 2017 – Present
Stanford CS 106 Staff

Taught weekly sections of 10-14 students for CS 106A/B. Adapted specific lesson plans, attended weekly staff meetings & teaching workshops, graded student assignments and midterms, and held interactive grading sessions with students during the quarter.

### VIRTUAL REALITY LAB
September 2017 – June 2018
VR Programmer

Created VR worlds for the Virtual Human Interaction Lab to use in PhD research. Implemented a multiplayer VR full-body experience using Unity, SteamVR, and Photon. Set up online VR studies using WebVR and Django to reach more participants.

## PROJECTS

### WOLFBOT
AI Game Player
Python

Created AI that can win the popular game: One Night Ultimate Werewolf. AI Solver determines which players are lying using consistent statement subsets. Wolf AI players use Expectimax and Reinforcement Learning to choose the best lie to evade detection.

### SELF-DRIVING
Unity3D Simulator
PyTorch

Trained a car simulator model to drive by taking in high-level controls (e.g. take the next available left turn). Used a branched ResNet architecture to predict throttle and steer angle. Successfully trained car to stay in its lane and complete turns in intersections.

### LANDMARK
Image Recognition
PyTorch

Competed in the 2019 Google Landmark Recognition Challenge hosted on Kaggle. Placed 53rd using an Xception network combined with compact billinear pooling and various forms of image attention to handle the few-shot learning problem.

### INSTAREACT
Mobile App
React Native

Built a concept app using React Native and Expo that automatically scrolls through an Instagram-like feed and likes/dislikes photos for you based on your facial reaction to the photo, using Google Cloud API for facial recognition. Built during LA Hacks 2018.

## EDUCATION

### STANFORD UNIVERSITY
Class of 2020
Computer Science B.S.
GPA: 3.9

Relevant Coursework:

CS 110: Principles of Computer Systems, CS 161: Design & Analysis of Algorithms, CS 147: Human-Computer Interaction, CS 155: Computer Networking & Security, CS 224N/229/230/231N: Deep Learning, CS 246: Mining Massive Datasets

## SKILLS

HTML/CSS/JS
Node.js, Express.js
React/Redux
Unity, Android Studio

Python
PyTorch
TensorFlow, Keras
C++, Java, Scala

## HOBBIES

Fingerstyle Guitar
Running
Music Production
Design Thinking