**Reality Detector**
The Zero to One improvement over the Polygraph

# CV Engineer Intern

Come join Reality Detector (Seer) – a deep-tech startup seed funded by Tim Draper and Draper Associates which is creating AI-powered deception and emotion detection technology to "*reveal incongruent words and actions at a glance*". **Our purpose is to create a more discerning, trustworthy and prosperous world. Our vision is to augment human understanding through technology and mission is to build a deception indicator and convince skeptics.** To achieve this, we are A) Augmenting and commercializing the detection of deceptive and physiological cues (indicative of emotive and cognitive processes) with multi-spectral computer vision; B) Automating and developing the complex coordination and integration of other sensors and AI features (Audio, NLP, Semantics) for a machine learning deception algorithm. Our initial product market fit is in creating cutting-edge biometrics to enhance travel across borders and protect innocents from harmful lies. The **CV Engineer Intern** will be working in a small team including data scientists, psychologists and software developers to develop the subsequent versions of our computer vision software, including audio and NLP features.

## Responsibilities

- Main responsibility is to research and develop the Pinnochio effect using thermal data over the course of the winter internship.
- Develop the beta version of our computer vision software by working closely with a small team including data scientists and software developers from diverse backgrounds.
- Develop backend computer vision modules based on physiological/behavioral baselines and deviations.
- Interface with hardware to collect raw data.
- Ensure algorithms are robust and work with a wide variety of subjects.
- Collaborate with the software engineering team to integrate the work into software packages that are computationally efficient.
- Provide assistance on technical documentation, paper publishing and patent filing

## Qualifications

- Proven experience in software development in a test-driven environment, building performance-tuned modules ready for integration
- Excellent experience in Python, OpenCV and solving CV-related problems
- Experience working with code and project management tools such as Git, NPM, Jira

- Knowledge of computer vision, for example: feature localization, optical flow, filter banks, signal processing, face detection, creating novel algorithms from the ground up is preferred.

## Qualities

- Share in our purpose to create a world where all people can access undistorted reality and accurately place their trust in others, ensuring authenticity, realism and credibility in human interactions.
- Have a growth mindset, be conscientious and be willing to set stretch goals for yourself.
- Be open to new ideas and feedback from others and believability-weighted decision making.

## Culture

- Contributing to a catalytic and innovative start-up as a founding member is an opportunity to maximize authenticity, autonomy and alignment.
- Through novel technology, growth mindsets and hybrid structures we can co-create the most enlightening and enriching work experiences possible.
- We are what we do – internally image management and eye-service are neither necessary nor desired.
- We shall not bear false witness of each other and we try to keep our word, even to our own hurt.
- Team members help each other achieve our individual and collective best and learn as much as possible.

**Reality Detector's Selected Achievements** • *Entrepreneur First grant funding and IC approval in 2019 • Top 50 team at LKYGPC Competition in September 2020 • Close to limited government tender.*

## Remuneration

- We offer a competitive salary including employee stock options to foster a sense of belonging and long-term alignment and employment passes to work in Singapore.
- A supportive work culture which is optimistic, collaborative, principled and innovative.
- We have a well-equipped, modern and expanding office at JTC Launchpad.

## Apply Now!

- Email your resume, including all your relevant experiences, to jiamin@realitydetector.com and cc: keefe@realitydetector.com
- In your email, include one short paragraph answering "Why you think you are a good fit for this role?", and your earliest date available date to begin working.
- Unfortunately, we are unable at this point to sponsor any more S and work permits (except NAS: HK, Macau, S.Korea. Taiwan).