Tell us what your idea is.

PC_Comfort_Zone is a mobile app aimed to help preventing diseases related to computer workers. IT specialists usually have to sit in front of a computer a lot of time during the day. If they don't care about posture, hourly and daily physical routines it is common to get diseases: scoliosis, osteochondrosis, myopia and others. This app will help by checking and correcting the user's posture, exercises interval and possibly (if the user will install our sensors) environment parameters. To see and check the posture, we use the phone's camera, but it is possible to use multiple cameras and get more accurate results. User's phone do some photos at predefined time interval and then sends them to the cloud. Now we use cloud (server with OPEN_CV installed) to check if the posture is good, but it will be more effective if the checking will be executed on Android or iOS device directly without the requirement of the server.

Describe in 250 words what the feature or service will do and how you'll use Machine Learning to push the bar:

Tell us how you plan on bringing it to life.

I have started learning ML (Udacity Bertselmann AI Nanodegree) to make pose detecture more correct and know how to use ML outside the scope of Open_CV. There are a lot of work to be done: make ML model more correct, transfer it to device instead of cloud, do some user research, determine the best way to make initial user settings (like how to set user's phone to get the best picture and adopt to the initial user's state - it is possible that the user has already have some sort of posture disease). It can take up to 5 months to be done. If I will be selected as a finalist of the Android Developer Challenge, Google professionals can help me with the ML model and user interface analysis.

Describe where your project is, how you could use Google's help in the endeavor, and how you plan on using

On-Device ML technology to bring the concept to life. The best submissions have a great idea combined with a concrete path of where you plan on going, which should include:

- *(1) any potential sample code you've already written,*
- *(2) a list of the ways you could use Google's help,*
- *(3) as well as the timeline on how you plan on bringing it to life by May 1, 2020.*

Tell us about you.

I am old enough to care about my health and the diseases that are more likely to happen in my life. So IT diseases prevention is actual for me. I am a mobile app developer. I have 3 years of experience in android native and 1.5 years of Flutter development. I have completed Udacity Android Developer Nanodegree. I am interested in adding Machine Learning to the list of my skills and started to learn it for about half year. My previous projects came from Upwork clients and are related to connecting mobile apps with hardware, making it possible to manage device state via BLE and send/receive data to custom made Bluetooth devices.

A great idea is just one part of the equation; we also want to learn a bit more about you. Share with us some of your other projects so we can get an idea of how we can assist you with your project.

Next steps.

- Be sure to include this cover letter in your GitHub repository
- Your GitHub repository should be tagged #AndroidDevChallenge
- Don't forget to include other items in your GitHub repository to help us evaluate your submission; you can include prior projects you've worked on, sample code you've already built for this project, or anything else you think could be helpful in evaluating your concept and your ability to build it
- **The final step is to fill out this form to officially submit your proposal.**