TRONG HAI NGUYEN

Software Engineer (Integrate AI models into mobile devices)

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EXPERIENCE

Software Engineer - Viettel AI
Integrating AI models into mobile devices

📅 March 2022 – Now   📍 Hanoi, Vietnam

- Integrated face-detection, face-extraction, face-pose, finger-detection, . . . and some image algorithms such as brightness check, blurry check, and specific processing logic for each problem. (see more in PROJECTS section)
- Developed a time-keeping management application, which helps users and managers go to work on time and remember timekeeping.
- Designed and developed a back-end module at the server that scans necessary notification campaigns table and sends detailed notifications to each user.

Software Developer Intern - FPT Software
C#/.Net on Sharepoint

📅 Jul 2021 - Oct 2021   📍 Hanoi, Vietnam

- Maintain web applications: edit HTML, CSS, Javascript,…
- Develop new features when requests were changed.

HONORS

- Graduate Representative spoke at the 2023 Graduation Ceremony.
- Speaker at "Win U Game season 1 - Tips for survival at university".
- Speaker at "2019 Learning Methods Conference"

ACHIEVEMENTS

- 2019: The Excellence Scholarship of Hanoi University of Science and Technology.
- 2023: THIRD PRIZE (Top 4) Viettel hearted AI challenges 2023.
- 2021: IMPRESSIVE AWARD (Top 04 Call for Code) IBM Hackathon.

TECHNICAL SKILLS

- Android Studio, IntelliJ IDEA, XCode, VSCode, MS Office,…
- Flutter, Dart, Kotlin, Java, C/C++ (Intermediate).

PERSONALITIES

- Clever, Confident, Creative, Agile, Adaptable.
- Disciplined, Calm, Honest, Supportive, Independent.

EDUCATION

Computer Engineering (BEng) - CPA: 3.74 out of 4.0
Hanoi University of Science and Technology

📅 August 2018 – May 2023

Higher Secondary - Mathematics
Bac Giang High School for Gifted Students

📅 2015 - 2018

🎓 Outstanding Graduate Student Award 2023.

PROJECTS

Electronic Know Your Customer (eKYC)

- I integrated both face-detection and face-pose models to authenticate the customer's face, including checking face-liveliness. Besides, I implemented NFC to scan ID card information.

Face Liveliness

- I customized it for a better liveliness check. The challenging task is recording the moving face from far to near process with a lot of navigation guides. After that, I must devise an algorithm for choosing K images from the recording process.

Finger Scan

- The main task is processing the image after being detected. We had to convert the image to match with the equivalent user's image in the customer's database (not shown) and save it in .wsq format.

Timekeeping

- I had to integrate face-detection and face-extraction models. Besides online mode, I must save time keeping in offline mode. The challenging task is for each face only to save a maximum of K images in T seconds, the process will continue for each T seconds. In online mode, saved images must be resent, and the currently recognized user will be greeted with a voice and displayed information on the screen.

Thesis project

- The main concept of the project is to monitor GNSS (Global Navigation Satellite System) signals and detect interferences.
- The main process is built upon the GNSS_SDR open source. I only need to extract some calculated results and process them further to obtain the exact data I want
- Proficient programming techniques and systematic thinking.