Xianfu Luo

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EDUCATION

University of Wisconsin-Madison   Madison, WI
Bachelor of Science in Computer Science, Minor in Data Science   *Sep. 2020 – May 2023*

Xiamen University   Xiamen, China
Software Engineering   *Sep. 2018 – Jul 2020*

EXPERIENCE

Meta   May. 2022 – Aug. 2022
***Software Engineer Intern** | Transient Analysis*   *Menlo Park, CA*
- Built an internal analysis platform to detect and diagnose noise in specific metrics with **Scala**.
- Cooperated with the Lab team to facilitate analysis in Lab UI, which can only be seen by authorized employees.
- Defined **Thrift API** and constructed model with data from either **Artillery** or **Everstore**, and save models to **Manifold** and **WarmStorage** (Both storage services).
- Built hourly pipeline to export the analyzed data into **Scuba/Hive** table.

Xiaohongshu   Feb. 2021 – Jun. 2021
***Software Engineer Intern** | Community Search IOS*   *Shanghai, China*
- Modified existing software to correct errors, and improve the performance with **Swift** and **Objective-C**.
- Collaborated with managers to design and implement, and finally launched new features in each iteration on **iOS**.
- Conferred with systems analysts, engineers, programmers, and others to design systems and obtain information on project limitations and capabilities, performance requirements, and interfaces.

Xiamen University   Jun. 2019 – Jun. 2020
Undergraduate Research Assistant   *Xiamen, China*
- Implemented the VR environment with **Unity**, connected **leap motion** to capture hand movements, and **visualized in VR**.
- Designed and discussed experimental schemes, carried out experiments, and collected data.
- Explored ways to design new wearable devices with functional modules and workflow.

PROJECTS

CannyX | *Swift, C++, Objective-C, OpenCV*   Dec. 2020 - Jan. 2020
- Developed an **iOS** application using **SwiftUI** as the UI framework and imported **OpenCV** to process image.
- Captured output of front and rear cameras and display on screen.
- Implemented different features like color inverting or image mean computing.

Clima | *OpenWeather API, Swift, AWS, Git*   Sep. 2020 - Oct. 2020
- Developed a weather forecast app using with **UIkit** as the UI framework and data from **OpenWeather** API.
- Managed and set up user pool on **AWS Cognito**, and integrated it with app.
- Designed and improved user interface via **Figma**.

XM-Code | *Python, OpenCV, Git, FFmpeg*   Feb. 2020 - Apr. 2020
- Constructed a **python** program monitoring data transformation.
- Set **self-made transmission data format**, encode input data and generate a video output.
- Recorded video with mobile phone and decode to obtain the output data.
- Improved the veracity by setting anchor points to locate where the XM-images are.

TECHNICAL SKILLS

Languages: Scala, Java, Python, C/C++, Swift, R

Frameworks: SwiftUI, UIKit, Cocoapods

Developer Tools: Git, Xcode, Visual Studio, PyCharm, IntelliJ, AWS(IBM Cloud)

Core Courses: Algorithms, Data Structure, Computer Network, Operating Systems