**Yanxia HE**

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**Basic Information:**

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|---|---|
| Date of Birth | 02.03.1991 |
| Nationality | China |

**Practical experience**

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|---|---|
| 01/2020 – 11/2020 | **Intelligent Remote Surveillance System based on Raspberry Pi** |

- Implementation of server side **C++** application.
- Web client development with **Springboot, Bootstrap 4, HTML/CSS** and **Javascript**.
- Communication and video streaming between client and server with **Websocket**.
- Database management with **MySQL**.
- Camera movement control with **PWM** modulation.
- AI Human detection with a trained model by using **OpenCV**.

**Personal Blog Website and its Administration Website**

- Front-end development with HTML/CSS, Bootstrap4, Javascript and jQuery etc.
- Back-end development with Springboot, SpringMVC and MySQL.
- Website deployment on Raspberry Pi with **Docker**.

**Coronavirus Information Website**

- Data scraping by using web crawler written in **Python**.
- Front-end development with **Vue.js**.
- **Continuous deployment** to **Github** pages with Github Actions.

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| 04/2018 - 01/2019 | **Master thesis: "**Performance evaluation of GANs for faces recognition tasks against image degradation" |

- Model training that repairs images based on python and **TensorFlow**.
- Feature Extraction for faces recognition.
- Performance evaluation of GANs for faces recognition tasks against image degradation.

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| 07/2017 - 09/2017 | **SAIC Motor Co., Ltd**., China |
| | **Internship** |

- Environment perception algorithm development for autonomous driving vehicles using C++.

## Education

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|---|---|
| 10/2017 - 02/2019 | **Technical University of Munich (TUM), Germany** |
| | **M.Sc.** Electrical Engineering and Information Technology (Double Degree of TUM and Tongji University in Shanghai) |
| 09/2015 - 09/2017 | **Tongji University**, Shanghai, China |
| | **M.Eng.** Control theory and Control Engineering |
| 09/2011 – 06/2015 | **Huaqiao University**, Xiamen, China |
| | **B. Eng.** Measurement and Control Technology and Instruments |

## Language skills

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|---|---|
| English | Written and spoken fluently |
| German | B2 |
| Chinese | Native language |

## Engineering skills

Software IDE

- IDEA, Pycharm, Visual Studio Code, Eclipse

Programming skills

- Java, Python, C++, Javascript, HTML/CSS

Frameworks

- Springboot, Mybatis, Vue.js, Bootstrap4

Others

- Git, MySQL, Thymeleaf, SpringMVC, jQuery, TensorFlow, Embedded Linux, Docker,Deep Learning

Stuttgart, 29.10.2020

Yan Xia He