

Jiale Cheng

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EDUCATION

Technical University of Berlin

Master of Computer Science (English taught)

Berlin, Germany

Apr. 2021 to Feb. 2023

Free University of Berlin

Bachelor of Computer Science (German taught)

Berlin, Germany

Oct. 2016 to Jun. 2021

WORK EXPERIENCE

Software Developer

Specific direction in Odoo ERP development, mainly using Python

Landshut, Germany

July. 2023 to now

- Developing Odoo modules, implementing some simple functionalities.
- Performing Create, Read, Update, and Delete operations on existing modules, and updating web pages.
- The main technology stack includes Python, Odoo, HTML, XML, Javascript, Linux and PyCharm.
- Working language: 80% English, 20% German.

INTERNSHIP

LiangDao GmbH

Software Development Intern

Berlin, Germany

Dec. 2022 to Mar. 2023

- 4 months full-time internship, 32 hours per week
- Development environment based on Ubuntu with Oracel VM
- Compiling C++ code into a Node.js plugin using node-gyp.
- Compiling C++ code into WebAssembly using emcc, loading it into JavaScript file and calling it in HTML.
- Binding C++ code to Python interpreter, enabling Python to directly call C++ code through the use of pybind.

Hikvision

Technical Support

Frankfurt am Main, Germany

Mar. 2022 to June 2022

- 3 months full-time internship, 40 hours per week
- Sales data analysis using Python Pandas
- Test the software functionality of the company's products
- Give suggestions and feedback for optimization
- Explaining the use of the company's products to customers

PROJECTS

Project Advanced Web Technologies

Oct. 2021

- In this project, I trained a chatbot using the Rasa platform to primarily answer questions related to school applications. I wrote a large corpus of data for the chatbot, performed intent recognition and paraphrase detection, defined response statements, and successfully deployed it on Docker
- Proficient in using the Rasa platform for chatbot development and training
- Created a rich corpus of data and applied NLP techniques to perform intent recognition and paraphrase detection, improving the chatbot's accuracy and user experience
- Designed and defined human-like and friendly response statements for the chatbot
- Successfully deployed the chatbot on Docker, providing users with a stable online service

Project Intelligent Cybersecurity Applications

Oct. 2021

- In this project, We successfully applied the Isolation Forest algorithm for detecting anomalous behaviors in IP addresses. By analyzing a large volume of IP data, the system was able to effectively identify potentially risky anomalous IP addresses, contributing to the improvement of general network security
- Researched and mastered the principles and implementation methods of the Isolation Forest algorithm, providing reliable technical support for IP address anomaly detection
- Collected and organized a large amount of IP data, and preprocessed it, including cleaning, filtering, and normalization, laying a solid foundation for subsequent analysis
- Designed and implemented an anomaly detection model based on Isolation Forest, which demonstrated high accuracy and robustness, effectively handling various types of anomalous IP addresses

TECHNICAL SKILLS

Language: Chinese(Native), English(Working Proficiency), German(at least B2)

Coding: Python(Pandas, Numpy, Scikit-learn, Selenium, Pytorch), Java(Spring), C++, JavaScript, Haskell

Others:

1. Flask, Node.js, Redis, SQL, MySQL, Docker, Data Analysis, Data Visualization, Machine Learning