Ruixin Tang

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http://ruixintang.site

Gender Female | Date of birth 25 February 1998 | Nationality Chinese

EXPERIENCE

December 2022 - Present

Software Engineer, Capgemini Engineering, Eindhoven

Started as a young professional in the Technical Application Engineering unit. Assignment experience as follows:

June 2024 - Now

Python programmer ASML, Veldhoven

Situation: The current Twist test framework is at the end of its life.

Task: Migrate the existing Twist tests to the BDD Robot Framework and create new test cases using Python 2.7.

Action: 1. Develop protocol libraries for SECS and EDA in **Python 2.7**. 2. Implement the requirements for new test keywords. 3. Deliver the library and create documentation and README files to guide users. 4. Use **Bash** scripts to streamline the installation and delivery of different versions. 5. Align closely with the team responsible for creating keywords to ensure seamless integration and functionality.

March 2023 - January 2024

Scientific programmer TNO-ESI, Eindhoven

1. Shared Model Specification: Collaborated closely with both projects to develop a unified model specification to create a standardized JSON schema.

2. Transformation: Developed a RESTful API using **Python flask** and **Java Jakarta** for the transformation process from JSON schema from/to the original format(python and DSL) for the unified visualization of the model created by researchers.

3. UI Development: Created the design and development of the system model editor's UI by **Typescript** and **React.js**. This UI package is served to Canon for further discussion.

April 2022 - October 2022

Graduation project, Philips, Best

Research question

The research question can be formulated as: Given an event log from a human-computer interaction system, how can the efficiency of the traditional user behavior study be improved by an integrated representation of information in temporal and spatial dimensions

Event-based visualization design: Integrated **spatial** and **temporal** dimension into an adopted event-based visualization concept. Enabling a customizable retrospective visual analysis using an application prototype built by **Python(PyQt)**.

Further study support: The application has been adopted in Philips IGT innovation for further studies on IGT system log processing. The preliminary result of detecting the surgery access point(radial or groin) was submitted to the next system updates discussion list.

September 2021 - February 2022

Data analyst Intern, Unilever Food Innovation Center, Wageningen

A 6-month internship in department of Food Package&Processing at Unilever. The internship project is to analyze the possible reason(key ingredient groups) for powder food caking. During the internship, the classification of the ingredients based on different standards was the top difficulty. **Statistical** tests are combined to validate the essential ingredient features. **Linear regression** is applied to predict caking risk. The script is written in **Python**.

EDUCATION

September 2020 – October 2022

Master of Data Science in Engineering

Eindhoven University of Technology, Eindhoven, The Netherlands

Master Project: Data-driven Approach for Reproducing Use Scenario Using Machine Logs(Python) Result: 7/10

September 2017 – July 2020   ## Bachelor of Computer Science

Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

Bachelor Project: A Comparison of Path-tracing Based Sampling Strategies for Global Illumination Methods(C++) Result: 8.5/10

September 2016 – July 2017   ## Bachelor of Computer Science and Technology

Nanjing University of Chinese Medicine, Nanjing, China

SKILLS

Language   Chinese(Native), English(Professional working level)

Professional   Python, GIT, React.js, Typescript, PowerBI, SQL, Java(Basic), C++(Basic)

VOLUNTEER WORK

September 2019 - November 2019   ## Student assistant, Vrije Universiteit Amsterdam, Amsterdam

Student assistant for the course Advance Programming for Computer Science (2nd year course in Scala). Assisting the professor with the practical session, question answering, and assignment grading.

September 2018 - July 2020   ## International Student Ambassador

International student ambassador in Vrije Universiteit Amsterdam. Helping with the international admission of students outside the Netherlands. Helping with the events to the potential students and study groups from other countries.

PORTFOLIO

Personal website   ## A visual representation of this document

Check ruixintang.site for demonstrative projects and my life.