
Feng Lin

Software Development Engineer In Test(SDET)

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<https://github.com/L1nwatch>, <http://watch0.top/>

SKILLS

- Language: English(TOEFL-97), Chinese(Native Language)
- Program: Python(familiar), know others like Shell/Java/JavaScript/C/C++/Ruby
- Quality Assurance: Functionality/Automation/Performance/Security
- Area Experience: Cloud Service, Internet of Things, Security Products(Network Firewall)
- Work Tools: Selenium/Appium/Jmeter/Postman/Docker/Git/Kali/IDA/Jira/OpenaiAPI/...

EDUCATION (master program now)

Concordia University, Montreal - *Master of Applied Science Software Engineering*

August 2023 - PRESENT

Research: Combine LLM, Test Techniques to improve the quality of code generation

Courses: McGill-ECSE688-Automated Software Testing and Analysis(Java projects)

Xidian University, Xi'An China - *Bachelor of Information Security (GPA 3.7/4.0)*

August 2013 - July 2017

Courses: C/C++, Data Structure Algorithm Analysis, Cryptography, Computer Networks, Software Reverse Engineering, Operating System Principles, Principles of Database, etc...

EXPERIENCE (around 5.5 years)

Alibaba, Local Life Service, Shanghai China - *SDET*

January 2023 - July 2023

My major duty is to ensure the quality of cloud service. Our cloud service serves different apps and has different functions, such as showing the list of restaurants in the map app, showing the list of menus in each restaurant and showing some promotions related to them, offering online orders service, tracking delivery status, etc. Some tasks are listed below:

- API testing: use built-in test tools to trigger interface data and modify values to verify different test cases, record the correct dataflow as the regression test scripts
- Write automation test scripts: write Java test scripts to simulate how a user uses the apps by combining different API invokes in a specific order.
- Performance testing: write Java test scripts to trigger multiple interface requests in a short time, monitor(memory/CPU/IO), and analyze the servers' performance(QPS/...)

TCL, Internet of Things, Shenzhen China - SDET & Team Leader

July 2019 - June 2022

My major duty is to design and implement different quality assurance solutions in a smart home scene(IoT). We need to test 4+ endpoints(voice control/app/cloud/TV). For example, user can power on the TV using their voice or apps on their phone. The command will then be sent to the cloud server and processed inside the TV device. Thus we need to ensure the software quality across four endpoints at this simple scene, test if the command is successfully conveyed, and if the TV rightly responds, and so on. Some tasks are listed below:

- Team Management: import Agile/DevOps to the team, build CI/CD testing workflow, improve 230% the team's efficacy and cut down 19% test period in 20+ versions
- IoT Test Framework: create a test framework(Python) based on the 'keyword/data drive test' theory, and offer 44+ automation test methods for the IoT Test Scene
- Scene Automation Test Scripts: based on the framework, autotest IoT scene (i.e. Control door locks by robot arms and then invoke APIs to check these devices' cloud status)

Sangfor, Security Products, Shenzhen China - Automation/Security Test Engineer

February 2019 - July 2017

My major duty is to write automated scripts to collect datasets and test our security products(network Firewall/Virus detection engine, etc.). For example, to test the firewall, we need to imitate the network attack via scripts and check whether the firewall can block this data packet. Meanwhile, Sangfor uses some machine learning(AI) technology in the products, such as judging if a file is a virus or a normal file. So as test engineers we need to collect lots of files from online open sources and do some file fuzzing, to support AI training and analyze the Accuracy and False Positive Rate of this AI. Some tasks are listed below:

- Collect Test Datasets: use Python+requests to collect URLs for testing(i.e. collect all URLs from websites and then invoke BlackChain API to check if they contain threat info)
- Web Automation Test Scripts: write Python+Selenium+unittest test scripts to automation click the network firewall web configure buttons and check the pages' display
- Develop Statistics Platform: write shell scripts to collect test devices' configurations/usage, display status on a Python Django website for other testers

AWARDS

Concordia(2023-):

- Concordia Merit Scholarship

Alibaba(2023-2023):

- 228th newcomer training class: Learning Star (top 15%)

TCL(2019-2022):

- Excellent employee of year-2020 (top5%)
- Patent Expert in Test Engineering (16 patents)

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- multiple S (KPI Performance Level)

Sangfor(2017-2019):

- Excellent newcomer of year-2017 (top6%)
- Excellent employee of year-2018 (top5%)
- Innovative gold coin prize of 2018 (20 quotas per year)
- The innovative team of 2018 (5 quotas per year)
- 8 times Quarterly Excellence Rewards

Xidian University(2013-2017):

- National Encouragement scholarship(2015 - 2016)
- The First Prize Scholarship(2014 - 2015)
- Outstanding Student(2014 - 2015)
- Special Scholarship/National Scholarship(2013 - 2014)
- Outstanding Student Mode(2013 - 2014)