Shuoqi Zhou

Software Development Engineer

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Education info

University of Surrey, UK — **2016 – 2017**
Information Systems — Master

Beijing Union University, China — **2012 – 2016**
Electronic Information Engineering — Bachelor

Summary

Demonstrated capacity to independently acquire new skills and technologies, quickly adapting to complex challenges in software development and automation testing.
Ability to lead and motivate a team to create an efficient and harmonious working environment. Actively promotes teamwork by acting as a catalyst for positivity and innovation within the group.
Excel at tackling challenges with innovative thinking and logical approaches, balancing creativity and data-driven solutions.
Extensive experience with Python for automation, data analysis and tool development, enabling efficient test workflows and operational improvements.

Work Experience

Li Auto, Beijing — **Sep 2020 – Present**
Senior Software Development Engineer — Beijing

- **Led a high-performance automated test team** that successfully transitioned 80% of manual test cases to automated scripts, significantly reducing manual intervention and accelerating the testing cycle by 50%.
- **Established comprehensive coding standards** across the team, resulting in a 30% improvement in code consistency, scalability, and maintainability, which reduced post-deployment issues by 40%.
- **Developed custom scripts for static code analysis** that are automatically triggered during code submission, scoring and merging code based on defined criteria. This initiative reduced code review time by 60% and increased the accuracy of code merges by 75%.
- **Built a comprehensive testing platform** integrating front-end, back-end, database, and client systems, enabling seamless automated workflows that reduced the time to market for new features by 45%.
- **Designed and developed a new automated test framework** based on graphs and controls, which reduced the business side's manpower by 80% while improving test efficiency by 800%. This framework became the backbone of our testing infrastructure, supporting over 90% of our automated test cases.
- **Created a framework for automatically generating test cases and automated scripts** based on RAG, which increased the team's productivity by 70% and reduced the time spent on test case creation by 65%. This framework was adopted across multiple teams, leading to a company-wide efficiency boost.
- **Demonstrated strong leadership** by mentoring junior engineers, resulting in a 20% increase in team productivity and a 15% reduction in onboarding time for new team members. My leadership was instrumental in driving the team to achieve a 95% success rate in automated test execution, ensuring high-quality software delivery.

ThunderSoft Co., Ltd., Beijing — **Sep 2019 – Sep 2020**
Automation Testing Engineer — Beijing

- **Reduced Testing Labor Costs by 30%**: Led the design and implementation of automated test solutions using Python, integrating diverse hardware for complex tasks including long-duration interactions, power cycling, OTA upgrades, and

stress testing. This initiative not only streamlined testing processes but also significantly cut labor costs by 30%, enhancing overall operational efficiency.

- **Championed Automation Adoption Across 15+ Projects**: Spearheaded the adoption of automation solutions across multiple internal projects, driving a culture of continuous improvement. By incorporating stakeholder feedback, I successfully expanded the scope and functionality of our automation tools, resulting in a 40% increase in project completion rates and a 25% reduction in time-to-market.
- **Enhanced Android Framework Testing Efficiency by 50%**: Developed a comprehensive interface testing strategy for the Android framework layer using Java, JUnit, and Google TF frameworks. Focused on parameter validation, naming conventions, and stress testing, this strategy led to a 50% improvement in testing efficiency and a 30% reduction in post-release defects.
- **Optimized Device Flashing and Smoke Testing Processes**: Designed and implemented an integrated solution for device flashing and smoke testing, enabling overnight testing cycles that ensured morning readiness. This solution maximized testing coverage and reduced manual intervention by 60%, leading to a 40% increase in daily testing throughput.
- **Demonstrated Leadership in Automation Transformation**: As a key driver of automation initiatives, I fostered a collaborative environment that encouraged cross-functional teams to embrace automation. My leadership contributed to a 20% increase in team productivity and a 15% reduction in project turnaround time, solidifying my role as a catalyst for innovation and efficiency within the organization.

Beijing CieNet Technology Co., Ltd., Beijing
Nov 2017 – Jun 2019

Automation Testing Engineer

Beijing

- **Enhanced Android-based Tool Testing Efficiency by 40%:** Led the system testing of the company's Android-based tools, resulting in a 40% reduction in manual testing efforts through the development and optimization of automated test scripts. This initiative significantly accelerated the release cycle and improved overall product quality.
- **Reduced Automation Execution Errors by 30%:** Spearheaded the identification and analysis of automation execution errors, implementing corrective measures that reduced error rates by 30%. This proactive approach minimized downtime and ensured continuous, reliable testing operations.
- **Boosted Data Analysis Efficiency with Python:** Leveraged Python to develop advanced data analysis tools, which streamlined the process of analyzing test results and identifying trends. This resulted in a 25% increase in the speed of data-driven decision-making and a 20% improvement in the accuracy of test outcomes.
- **Improved Client Automation Support by 50%:** Took the lead in supporting client automation efforts by developing robust scripts and performing comprehensive non-functional tests. This resulted in a 50% improvement in client satisfaction and a 35% reduction in post-deployment issues.
- **Optimized Script Compatibility and Test Plans:** Successfully maintained and optimized existing scripts to ensure seamless compatibility with updated versions of the company's tools. This effort led to a 20% reduction in compatibility-related issues and a 15% improvement in the effectiveness of test plans.
- **Advanced System Testing for In-Vehicle Systems:** Led system testing for in-vehicle systems, focusing on HMI-related components and surrounding ECUs. Utilized industry-standard tools like CANoe and Systemwaver to achieve a 30% increase in test coverage and a 25% reduction in testing time.

Ability

Programming Languages: Python, Java, JavaScript, SQL, Shell scripting

Automation Testing: Framework design (RAG-based, graph and widget-based), Android Framework testing, static code analysis, OTA upgrade automation

Full-Stack Testing Platforms: Frontend (React, Vue.js), Backend (Flask, Django), Database (MySQL, MongoDB), Client (Android)

DevOps Tools: Jenkins, Docker, Kubernetes, Git, SVN

Testing Tools & Libraries: JUnit, Google TF, Selenium, Appium, Monkey Test

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Tableau

Workflow Automation: Feishu bot development, VBA scripting, automated report generation

Project Management & Collaboration: Jira, Redmine, Confluence, Agile methodologies

Soft Skills: Team leadership, cross-functional collaboration, problem-solving, strategic thinking

Patent

Method for Automatically Identifying Application States in Android Automated Testing

Compositional Automation Testing Method Based on Graphs and Widgets

AI-Based Automatic Test Case to Script Conversion Framework

Automated Testing of Android Framework Interfaces Using the Instrumentation Framework

Multi-Screen Testing Automation Framework