LUYUAN HE (ALLEN)

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Results-driven Senior Automation Test Specialist with over 6 years in software testing and 2 years in development, excelling in web and mobile automation. Proven ability to architect and implement robust test frameworks that significantly reduce manual effort and decrease bug escape rates. A strong communicator and collaborator in Agile environments, adept at leveraging diverse technologies (Java, JavaScript, Selenium, WebdriverIO, Appium, CI/CD) to drive quality and efficiency. Committed to continuous improvement and delivering testing excellence.

SKILLS

- **Programming Languages:** Java, JavaScript, TypeScript, Python, SQL(Postgres), Groovy
- **Test Automation Frameworks & Libraries**: Selenium, WebdriverIO, Cypress, Playwright, Appium, Cucumber, TestNG
- **API Testing Tools:** Postman, Newman, RESTful API Testing, Charles Proxy
- **CI/CD & Version Control:** GitHub Actions, Git, GitHub, Jenkins
- **Test Management & SDLC:** Jira, Agile (Scrum)
- **Testing Methodologies & Types:** Test Automation (Web, Mobile, API), Functional Testing, Regression Testing, Performance Testing, BDD, Shift-Left Principles, Test Planning, Defect Management

EXPERIENCE

Senior Test Automation Specialist, Foxtel Group   June 2021 – May 2025

- Architected and deployed a JavaScript-based WebdriverIO & BrowserStack automation suite, incorporating BDD with Cucumber, under a shift-left strategy, which detected defects 30% earlier, cut bug-escape rates by 40%, and accelerated feedback loops by 25%.
- Spearheaded mobile UI and regression automation using Java & TestNG, reducing manual test effort by 55% and accelerating release cycles by 20%.
- Engineered an internal NPM package using TypeScript that consolidates shared utilities and components across multiple products, decreasing code duplication by 40% and boosting development speed by 35%.
- Developed and executed REST API functional testing code in Java and JavaScript using HTTP client libraries, automating request/response validation to ensure reliability, comprehensive coverage, and early defect detection
- Integrated CI/CD pipelines using GitHub Actions and Jenkins, creating scheduled workflows to run automation suites daily that send reports to Slack channels, ensuring early defect detection.
- Adopted a two-week Agile sprint cycle, utilising Jira boards for sprint planning and ticket management, and facilitated daily stand-ups, sprint reviews, and retrospectives to continuously deliver incremental product value and adapt to changing priorities.
- Actively participated in manual testing cycles with functional teams during major releases, gaining insights that informed automation priorities and helped ensure robust overall test coverage.

- Created automated test scenarios for TV applications using the Suitest platform.

Software Engineer in Test, Shanghai Rising Digital   *May 2018 – January 2019*
- Built and maintained an automation framework using Appium, Python, and Page Object Model, saving an average of 3 minutes per test case and improving test efficiency.
- Wrote and executed comprehensive test cases covering 98% of scenarios to ensure high test coverage.
- Documented defects in a tracking system and provided actionable feedback to developers.
- Collaborated in a Scrum environment with development teams to diagnose issues, drive root cause analysis, and implement fixes.

Software Engineer in Test, Pactera Technology (Shanghai) Ltd   *April 2016 – May 2018*
Working on-site at Lenovo Mobile
- Developed, executed, and maintained an automated performance testing platform and plans for customised Android OS, significantly reducing testing time by over 90% compared to manual processes.
- Continuously integrated new performance test requirements using Git, enhancing the framework's capabilities.
- Generated reports against performance metrics and escalated deviations to management for timely resolution.
- Analyzed and resolved production incidents, ensuring product stability and reliability.

Software Developer, Shanghai Gujia Network Science and Technology   *July 2015 – April 2016*
- Implemented web crawler tools in Groovy and Python to gather and parse data into the company database.
- Optimized database performance by writing efficient scripts, improving data processing speed.
- Researched and evaluated open-source and commercial data visualization tools to recommend optimal solutions.

Junior Android Developer, Shanghai Binpit Information Technology   *August 2014 – June 2015*
- Developed an Android photo editing and sharing application using Java, delivering features that enhanced user engagement.
- Adhered to Android development best practices, ensuring code quality and maintainability.
- Debugged and updated the company's other Android applications to improve performance and fix issues.

EDUCATION
- Master of Information Technology, University Of New South Wales, 2019–2021
- Bachelor of Computer Science, Mississippi State University, 2009–2013

CERTIFICATIONS
- ISTQB Foundation Level