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SUMMARY

Ms. Zhuang brings over 5 years of experience as a Project Engineer, specializing in systems integration and test of fare collection devices. She has extensive experience in managing the setup, configuration, and operation of fare collection systems, ensuring seamless integration with existing infrastructure.

Ms. Zhuang is proficient in interfacing with front-end and back-end software developers, third-party vendors, and regularly leads customer-witnessed workshops to demonstrate the end-to-end capabilities of fare collection and payment systems. She also delivers production software releases for critical firmware components, including key management and physical security features, and oversees the integration of new subsystems into legacy solutions.

Not only is Ms. Zhuang proficient in writing and optimizing SQL queries to retrieve, manipulate, and manage data from relational databases but she is also skilled in working with Linux and Unix-based operating systems. She is an expert in HTML for creating web page structures and CSS for styling and layout. Ms. Zhuang is also experienced in using Postman for API testing, debugging, and documentation to provide comprehensive evaluations of open architecture solutions for transit agencies.

PROJECT EXPERIENCE

2022 – 2024

CTA Ventra3 Responsibilities

Ms. Zhuang trained Test Engineers on proper test procedures covering the functionalities of validators and ticket vending machines. She led test case reviews, approving test plans and finalizing submittals to the customer for formal approval.

Ms. Zhuang coordinated with the Maintenance and Operations team to establish improved automated monitoring rules for various device types. She also oversaw asset management and organization of all test devices in ServiceNow and Back Office applications.

Ms. Zhuang worked with Software Engineers to determine the most optimized design for the CAD/AVL bus validator system. The solution incorporated multiple fallbacks in event of connectivity issues, including GPS-based location extrapolation performed by offline-capable microservices. She experimented hands-on with deployment configurations to boost performance and efficiency of the completed features.

2020 – 2022

MBTA AFC 2.0 Responsibilities

Sherry led test demonstrations for Cubic, witnessing test cases for the MBTA to ensure strict compliance with requirements and ensuring that functional requirements are thoroughly addressed, and overall test coverage is sufficient. She also conducted field testing by utilizing system test packages and ad hoc scenarios.

2020 – 2022

MBTA Interoperability Responsibilities

Sherry adeptly facilitated joint integration testing with MBTA, Cubic, and S&B in the MBTA Model Office. She diligently captured and triaged all defects, ensuring that the relevant contractor receives

the necessary information to resolve each issue. Sherry also tracked test coverage and results from all parties to determine production readiness.

WORK HISTORY

- 2024 – Present
Consultant, Clevor Consulting Group, Portland, OR
 Ms. Zhuang was hired by CCG in 2024 to enhance the technical team at Clevor Consulting Group. She has been supporting various projects in different capacities such as system integration, environmental configurations, requirements development, testing, and more. Her experience in employing various testing methodologies to validate payment processing devices carries great value in supporting the agencies we work with.
- 2022 – 2024
Project Engineer, Cubic Transportation Systems, San Diego, CA
 Ms. Zhuang established and managed proper setup and environmental configurations of over 50 individual functional devices, facilitating engineering development and QA verification in a collaborative lab setting. She also interfaced with front/back-end software developers and third-party vendors to determine most efficient solutions, addressing the issues identified through defect triages, customer feedback, and gap analyses. As a participant in customer-witnessed demonstrations of the system’s end-to-end operation, she supported business development and the procurement of contracts for new projects. Sherry drove the production software releases for project’s firmware components e.g. for key management and physical security, resulting in the commencement of factory acceptance and manufacturing. She oversaw a seamless integration of new subsystems into legacy hardware and existing systems, demonstrating readiness for a customer-approved transitional pilot phase.
- 2019 – 2022
Test Engineer, Cubic Transportation Systems, San Diego, CA
 Ms. Zhuang employed a variety of testing methodologies spanning the Software Development Life Cycle such as In-Sprint, Performance, and Regression to validate various payment processing devices. She created comprehensive test plans that cover the scope of requirements from key capabilities to broader use cases. Ms. Zhuang also prepared for workshops and regularly demonstrated progress through formal compliance testing, ensuring results were documented in-depth for internal and external reference and evaluation.
 Mentoring new team members covering QA processes such as raising defects, as well as technical guidance with log analysis, troubleshooting using Linux scripting, and extracting data with SQL or API was another great achievement of hers. Ms. Zhuang met critical deadlines and maintained a history of no significant defects uncovered in production.

EDUCATION

- 2018
Champlain College, B.S. Software Development
 Ms. Zhuang made it onto the President’s List and was also awarded the Trustee’s Scholar Award
- 2016
University of California, Santa Barbara, B.A. Biological Anthropology
 Ms. Zhuang studied Biological Anthropology, focusing on the evolution of humans, their variability, and adaptations to environmental stresses.