SONGYU WANG

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SUMMARY

Software test engineer (quality assurance specialist) with four years of experience in test strategy design, test automation, test plan, test execution(manual and automated), and test framework/tool development in the highly regulated industry in a SCRUM/Agile environment. Experienced in complex test management and tractability. Have a deep understanding of functional testing with behavior-driven development and test-driven development. Have strong technical acumen with extensive defect and bug identification, triage, reporting, and verification exposures. Oversaw verification and validation regularly for web applications, API services, etc.

EDUCATION & CERTIFICATIONS

Rose-Hulman Institute of Technology   **Terre Haute, IN**

Bachelor of Science, Computer Science and Software Engineering (2018)   GPA: 3.73/4.00

Scrum.org | Professional Scrum Product Owner I (2019) **& Professional Scrum Master I** (2018)

Triplebyte | Generalist Software Engineering (2019)

California State Department of Consumer Affairs | Engineer in Training (2020)

TECHNICAL SKILLS

Selenium	HTML/CSS/Javascript/ TypeScript	Cypress	Behave
Java	Python	AWS	Git
MySQL	Mac/Linux/Windows OS	Jenkins	Docker

EXPERIENCE

Jun 2020 – Present   **Benchling**   **San Francisco, CA**

Software Engineer, Quality

- Participating in multiple company-wide quality-related projects for a cloud company that develops software platform powering breakthrough research on biotherapeutics, biofuels, and biomaterials
- Working on various test infrastructure improvements
- Improving E2E (end-to-end) testing coverage for various teams by at least 10%
- Onboarding new hires for the QE(Quality Engineering) team
- Designed and implemented test case management SOP (standard operating procedure) that meets the regulations
- Participated in GxP (regulations and guidelines applicable to life sciences organizations) SOP design and technical implementation/automation
- Designed and implemented software versioning CI (continuous integration) pipelines for various types of the product
- Performed release activities as an acting release engineer for GxP customers. Responsibilities include developing release/upgrade plans, finalizing code for

release, generating release patches, and performing testing and production environment deployments
- Researched and evaluated the difference between Cypress and TestCafe. Heavily influenced the company's tech stack choice
- Participated in web application testing framework development using Cypress
- Designed and implemented a test traceability system with Jira/Xray integration to enable the product to be GxP compliant
- Supported/developed developer productivity tools

Jul 2018 – Apr 2020   **HeartFlow, Inc**   **Redwood City, CA**

Software Engineer in Test
- Oversaw quality and testing for platforms' and services' components in a SCRUM/Agile environment for a medical technology company that develops software used to create 3D models of coronary arteries to analyze blockages and the impact on blood flow
- Supported development and verification of three web applications, three backend/API services and four workflow/product-related components
- Maintained and refactored existing legacy test frameworks to improve stability and speed, continuously deliver new features for newer frameworks
- Implemented and maintained internal tools to support the development and verification effort
- Designed manual and automated tests using Python and JavaScript to refine and verify product requirements prior to launch/implementation
- Discovered and managed hundreds of internal and external defects and bugs
- Conducted verification/validation activities, including developing and executing test plans, reviewing results and writing reports, and collaborate with cross-functional teams to perform functional, regression, and system-level testing, and ensuring all test-related documentation meets the current corporate and federal regulations
- Prepared Test /Risk Traceability Reports to document test execution outcomes and traced each product requirement and risk contributor/mitigator to the test

Additional Experience
- Teaching Assistant (Mar 2017 - May 2018) - Rose-Hulman Institute of Technology
- Software Engineer in Test, Intern (May 2017 - Aug 2017) - HeartFlow, Inc
- Software Intern (Feb 2017 - May 2017) - Rose-Hulman Ventures
- Software Intern (Jun 2016 - Jul 2016) - Pansoft Co. Ltd.