

SONGYU WANG

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SUMMARY

Software test engineer (quality assurance specialist) with three 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
<i>Software Engineer, Quality</i>		
<ul style="list-style-type: none">• Participating in multiple company-wide quality-related projects for a cloud company that develops software platform powering breakthrough research on biotherapeutics, biofuels, and biomaterials• Acting release engineer to perform release activities for GxP(regulations and guidelines applicable to life sciences organizations) customers. Responsibilities include developing release/upgrade plans, finalizing code for release, generating release patches, and performing testing and production environment deployments• Consulting and reviewing testing code development• Designing and implementing test case management SOP(standard operating procedure) that meets the current corporate and federal regulations• Participating in GxP SOP design and technical implementation/automation• 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.