

Willow Hughes

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Education

University of Oklahoma, Norman, OK
Bachelor of Computer Science | Dec. 2021
GPA: 3.65/4.00

Relevant Experience

Software Development Engineer in Test (SDET)

PAYCOM, Oklahoma City, OK | 2025 - 2026

- Designed and developed large-scale UI automation for Paycom's enterprise CRM system using C#, Selenium, and Playwright, covering core features across tools, forms, tables, and reports.
- Reduced manual QA workload to under 10% and cut automated test execution time from multiple days to just a few hours through optimized framework architecture and efficient test development.
- Created reusable Table, Navigation, and Form automation components, eliminating duplicated test logic and enabling rapid automation across multiple submodules in CRM.
- Mentored and trained 10+ junior SDETs, providing guidance on automation best practices, framework structure, and suite ownership while collaborating closely with QA analysts, developers, team leads, and managers.

Quality Assurance Tester

NEXPORT SOLUTIONS, Oklahoma City, OK | 2023 - 2024

- Developed comprehensive test plans utilizing TestRail to guarantee the reliability of point releases.
- Investigated and addressed bugs, enhancements, and UI issues, resulting in a substantial improvement in the user experience and maintaining continuous uptime for NexPort.
- Conducted manual testing on the online learning platform, tracking progress through TestRail and Fogbugz case management ticketing software. This approach ensured seamless communication among engineers, testers, stakeholders, and end users throughout the testing process.

Full Stack Software Engineer

NEXPORT SOLUTIONS, Oklahoma City, OK | 2021 - 2023

- Led the launch of an HTML and PDF WYSIWYG certificate editor for curriculum creators, featuring an intuitive drag-and-drop workflow and a templating system that automatically generates signed PDFs populated with student information upon course completion.
- Developed a media library tool using JavaScript and TypeScript to handle CRUD operations for uploaded files, including search and sort functionality. Integrated the tool with assignment creation, instructor classrooms, and student classrooms, enabling seamless media usage without manual HTML links.
- Revitalized legacy code by migrating multiple Monorail controllers to C# MVC architecture, incorporating CSHTML views and TypeScript tools. Updates to controllers—including DocumentSharing, Home, Membership, StudentDocument, and Certificates—reduced technical debt, improved system performance, and streamlined future maintenance.
- Enhanced the Rich Text Editor with a custom plugin, allowing users to insert media library documents directly through the editor's menu, fully integrated with the media library tool for a seamless experience.

Full Stack Software Engineer

MONTE R. LEE AND COMPANY, Oklahoma City, OK | 2019 - 2021

- Introduced an innovative real-time data management solution designed for field workers, facilitating the efficient reporting of wiring units. This initiative aimed at enhancing workflow and productivity, ultimately freeing up valuable resources to pursue additional contracts.
- Developed a Python-based Django website tailored for the office environment, enabling seamless report generation and project progress tracking.
- Designed and implemented a Kotlin mobile companion app specifically for field workers, enabling them to effortlessly send project updates to the office. The app features offline caching functionality and automatic database syncing with a MySQL database, ensuring seamless communication and data synchronization.
- Enhanced a RESTful API in PHP to facilitate seamless communication between the mobile app and the website. Furthermore, adapted the API to seamlessly support future integrations with other services.

Software Engineer

UNIVERSITY OF OKLAHOMA, Norman, OK | 2018-2019

- Developed a user-friendly pay-what-you-want slider for a donation-based coffee shop, streamlining the experience for customers unfamiliar with gratuity-based funding.
- Implemented secure register and payment processing through integration with Square app APIs.
- Orchestrated a collaborative effort with a team of three, working closely with the Second Wind manager using agile methodology for effective project organization.

Software Engineer Intern

JARDUM, Owasso, OK | 2016-2017

- Engineered baseline configurations in C++ for digital dashboards in vehicles, enhancing customization options across various makes and models.
- Additionally, crafted a trade show booth using Python and Raspberry Pi to effectively showcase the company and present our innovative dashboards to potential partners.

Skills

Front-End: Playwright, Selenium, JavaScript, TypeScript, jQuery, HTML, CSS, CSHTML, Bootstrap

Back-End: C#, PHP, ASP.NET, .NET Framework, Python, Java, Django, NHibernate, SQL, WebAPI, RESTful Web Services, Database Migrations, Relational Databases, Indexing, Database Profiling

Development Platforms: Visual Studio, ReSharper, GitHub, Xcode, IntelliJ IDEA, NetBeans, Sublime Text, Android Studio, Microsoft SQL Server Management Studio, Microsoft Azure