

# 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

### 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 successful launch of a feature encompassing an HTML and PDF certificate What You See Is What You Get (WYSIWYG) editor tailored for curriculum creators. This feature includes an intuitive drag-and-drop workflow and a templating system. The templating system facilitates the conversion of the certificate template into a signed PDF, automatically populated with student information when a certificate is awarded upon completion of the courseware.
- Developed a media library tool using JavaScript and TypeScript to efficiently handle CRUD operations for uploaded files. Implemented features such as search and sort filtering for enhanced usability. Integrated the newly created media library tool seamlessly with assignment creation, instructor classrooms, and student classrooms. This integration empowers students, instructors, and creators to utilize uploaded media effortlessly, eliminating the need for HTML image links.
- Revitalized legacy code by migrating multiple Monorail controllers to the C# MVC architecture, incorporating CSHTML views and TypeScript tools. The transformation of controllers such as DocumentSharing, Home, Membership, StudentDocument, and Certificates resulted in a substantial reduction of technical debt, enhanced system performance, and established a more streamlined maintenance process for the future.
- Enhanced the widely adopted Rich Text Editor by developing a custom plugin. This plugin facilitates the insertion of media library documents, allowing users to upload files through the media library tool seamlessly integrated into the Rich Text Editor's menu actions bar.

### 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 Developer 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: JavaScript, TypeScript, jQuery, HTML, CSS, CSHTML, Bootstrap, Responsive Modern Design, Dynamic Content**

**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**