

# Brooke R. Brown

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## EDUCATION

### Sundsgårdens Folkhögskola

Oct 2024 - Jun 2025

#### *IT for Women Certificate*

The program emphasized gaining practical skills in HTML, CSS, and JavaScript, React through collaborative team projects (teams of 4-5) and individual assignments.

Exp: HTML, CSS, JavaScript, React, Independent Research Skills

### University of North Florida

Aug 2014 - Aug 2016

#### *Master's Statistics*

The program emphasized both theoretical foundations and practical experience using modern statistical software to derive insights from complex data and inform data-driven decision-making.

Exp: SAS, R-Coding,

### University of Central Florida

Aug 2013 - Aug 2014

#### *Master's Mathematics Education*

The program emphasized curriculum development, innovative teaching methods, and the application of advanced mathematical concepts in real-world educational settings.

Exp: Curricula Design, Pedagogy, Interpersonal Skills, Classroom Management

### University of Central Florida

Aug 2009 - Aug 2013

#### *Bachelor's Applied Mathematics*

The program emphasized modeling, computational tools, and algorithm design, preparing me to analyze and solve complex challenges across various industries.

Exp: Mathematical Modeling, Algorithmic Problem Solving, Analytical and Critical Thinking

## WORK EXPERIENCE

### Davidson College, NC

2025 - Now

#### *Web Developer Internship*

This role involved collaboration with cross-functional teams to design, implement, and optimize archival database web application while ensuring best practices in security, code quality, and performance were upheld throughout the project lifecycle.

**Skills:** Laravel 12, Bootstrap5, MySQL

### US Department of Transportation

2018 - 2024

#### *Mathematical Statistician*

This role involved collaborating with diverse teams to develop data-driven solutions that support policy and operational decisions. Identified opportunities for process optimizations within data collection and analysis frameworks.

**Skills:** MS Excel, Tableau, PowerPoint, MS Project

### Baker Distributing, Jacksonville FL

2018 - 2018

#### *Pricing Analyst*

This role involved leveraging analytical skills to uncover trends and insights that directly influenced business strategies. Utilized advanced analytics tools such as SQL to enhance data visualization and reporting accuracy

**Skills:** R-coding , MySQL

### Bank of America

2017 - 2018

#### *Operations Analyst*

This role demanded a strong analytical mindset to identify areas for improvement and implement strategic initiatives. Assisted in identifying operational risks and implementing mitigation strategies.

**Skills:** Excel

## ACTIVITIES

### American University

2023 - 2024

#### Leadership Development Program

A program to cultivate leadership in public sector executives, it challenges good managers to become exceptional leaders who build an environment for organizational success

### US Department of Transportation

2023 - 2023

#### Data Science Program

A program designed to enhance staff technical skills by providing comprehensive training in areas such as statistical analysis and data visualization using industry-standard tools and programming languages.

## CERTIFICATIONS

Responsive Web Design (freecodingcamp.org)

2024

## SKILLS

Language	English
Frontend	TailwindsCSS, Bootstrap5, SASS, CSS, HTML , Figma , JavaScript, React
Backend	PHP, Laravel 12, MySQL
MS 365	Excel, PowerPoint, Word, Project
Personal	Independent Work, Leadership, Public Speaking, Project Management, AGILE

## PROJECTS

### Davidson Archaeologic Digital Archive

(2025 - Present)

<b>Customer</b>	Davidson College Archaeology Department.
<b>Description</b>	Development of a web application that allows users to archive artifacts digitally as well as browse the collection via a hosted service.
<b>Team size</b>	1 - Developer & 1-Subject Matter Expert (SME)
<b>My position</b>	Web Developer Intern
<b>My responsibilities</b>	As the developer my role was development of the application including form infrastructure, development of administration tools, controller logic, routers and middleware set up, UI/UX design, QA testing, and deployment. As the sole developer on this application, I was also responsible for presenting progress to the client, receiving feedback and integrating the changes, as well as breaking down technical process to a non-technical audience.
<b>Technologies used</b>	Laravel 12, Bootstrap 5, MySQL , AGILE method, PowerPoint for presentations