

# HANNAH M. NEAL

FULL-STACK SOFTWARE DEVELOPER



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<https://github.com/hannahmneal>



<https://hannahmneal.github.io/main/>

## PROFILE

Curious, versatile and persistent. Builder of apps, player of board games, lover of science, painter of walls, snuggler of cats, troubleshooter of the broken, logger of the console, friend of many, learner for life.

## PROJECTS

### Lab Manager - C#

Lab Manager is built on Microsoft's ASP.NET Core framework using C#, Identity Framework for user identification and authentication, and Entity Framework and Microsoft SQL Server for application scaffolding, database integration and management. Lab Manager seeks meet a true need for large and small healthcare and environmental laboratories by providing an inventory system to track items and chemicals. This system tracks manufacturers, model numbers, serial numbers, and a variety of dates including received, opened, expiry, and calibration dates.

<https://github.com/hannahmneal/LabManager>

### Game Closet - React

Inspired by a tiny closet and over 60 board games, Game Closet is a single-page application that enables board game enthusiasts to track their collection by keeping the most relevant details of a game (such as minimum and maximum players or whether the game is competitive or cooperative) at the touch of one's fingertips. Mid-term Front-End Capstone project built in React with JSON server for persistent data storage and Reactstrap and Material Design libraries for styling.

<https://github.com/hannahmneal/Front-End-Capstone>

### Contoso University - C#

A small project built with the guidance of Microsoft's ASP.Net MVC Core with Entity Framework tutorial. This app simulates a real-world situation in which a university needs to handle multiple related data sets (Students, Instructors, Enrollment, Classes, etc.) and structure the relationships in the meaningful way for the user.

<https://github.com/hannahmneal/ContosoUniversity>

## EDUCATION:

**NASHVILLE SOFTWARE SCHOOL**  
Full-Stack Software Developer

**THE UNIVERSITY OF TENNESSEE, MARTIN**  
B.S., Interdepartmental Studies

**UNION UNIVERSITY**  
Cell and Molecular Biology Major. 2008-2011.

## PROFESSIONAL EXPERIENCE:

### NASHVILLE SOFTWARE SCHOOL

#### Full-Stack Software Developer (Nov 2018 - present)

*Rigorous six-month full-stack software development bootcamp*

- Built browser-based, full-stack applications using HTML, CSS/Bootstrap, Javascript, jQuery, React, SQL, and C#/.NET while learning principals of OOP in individual and teamwork settings
- Utilized GitHub for source code version control and collaboration.
- Voted Community Director and Social Chair by classmates during mid-term awards.

### GROUP PROJECTS

#### Nutshell - React

<https://github.com/nss-day-cohort-29/reactive-nutshell-lochsea>

- Worked with two others to produce a platform to organize news, friends and daily tasks.
- CRUD application using the React library with Grunt, Browserify and ESLint for task automation and JSON server for persistent data storage.
- Implemented the Tasks component by which a user can see all of their tasks, delete one or many tasks, and add new tasks.

#### Bangazon Workforce - C#

<https://github.com/nss-crystal-cobras/WorkforceManagement>

- Part two of a three-part project using Agile methods in a SCRUM environment.
- Worked closely with three other team members to produce the workforce side (HR, Employees, Departments) of a fictional virtual marketplace.
- Utilized ADO.NET and SQL Server to access Bangazon workforce data and manipulate it using the MVC pattern with Razor.
- Responsible for the Details view in the Employee resource and Edit and Details Views in the Training Program resource and Integration Testing of these resources.

### QUAVER MUSIC

#### Independent Contractor (Aug 2015- Nov 2018, PRN)

*Growing, one-of-a-kind K-12 music education company*

- Gathered data about schools and districts for Sales and Marketing departments and used Asana, Google Sheets for communication and data entry.
- Tested web-based curriculum applications and submitted feedback and quality concerns to Customer Service, Marketing, and Development teams.
- Checked internal database (Q-Force) for issues such as duplicate entries, customer complaints/concerns, and curriculum license terms; resolved or flagged issues for further review as needed.

### ISAAC SPINE, JOINT AND PAIN LABORATORY

#### Laboratory Assistant (Nov 2017 - Nov 2018)

*High-complexity physician-owned CLIA-accredited laboratory*

- Updated Excel quality control records system to ensure accurate reporting of patient metabolic data and performed extensive internal audit for quality assurance and annual review.
- Maintenance, calibration and troubleshooting of sensitive instrumentation such as ThermoFisher MGC 240 Spectrometric Analyzer and Sciex API 4000 Mass Spectrometer.
- Reported patient results via EMR (EClinical) and Laboratory (Paracelsus) systems.
- Updated SOPs and created a lab manual for training and inspection purposes.

### EMPIRICAL LABORATORIES, LLC

#### Laboratory Scientist (May 2017 - Oct 2017)

*Environmental laboratory specializing chemical analysis of soil and water*

- Tests performed include: iodometric titration of sulfides, determination of total and ortho-phosphate by colorimetry and spectrometry, total metals digestion for analysis by ICP, pH and alkalinity by acid/base titration, and extraction of herbicides and pesticides.
- Calibration and maintenance of equipment such as Thermo Spectronic Gensys 20 Spectrometer, Orion 420A pH meter, Shimadzu Total Organic Analyzer TOC-TWS, and Thermo Gallery Spectrometric Analyzer.
- Recorded and reported data (chemical standards and reagents, chemical calibrators and controls, analytical results) via Excel and Promium Element.