

# RYAN BISHOP

## SOFTWARE DEVELOPER

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**EMPLOYER TO-DO**  
☐ APPLICATION EVAL.  
☐ PHONE SCREEN  
☐ HIRING MGR. INTERVIEW  
☐ IN-OFFICE INTERVIEW  
☐ FOLLOW-UP

## PROJECTS

### DEBUG DOCKET

Front-End Capstone

- + Software **Bug/Issue Tracker**
- + **Time Management** Tool
- + Developer **Social Platform**

**Debugging** is an important skill for any developer. But bugs can have a bad reputation, being **costly, stress-inducing,** and **annoying**. I built **DEBUG DOCKET** to shift that mindset by approaching bugs with a growth mindset through *healthy time management, helpful analytics* and *team engagement*.

- Single-Page Application built utilizing **React Hooks** with full CRUD-functionality for **tracking to-do list of bug tickets** and **auto-tracking time spent on each bug**
- Automated timer utilizing time management **Pomodoro® Technique** for consecutive **work/break** periods with friendly reminders
- Find fellow developer colleagues and view & help with their reported bugs

[github.com/rdbishop19/Debug-Docket](https://github.com/rdbishop19/Debug-Docket)

### 2048-game

Python Home Project

- + clone of my **favorite mobile game**
- + built in **Python 3.7**
- + objectives: get the 2048 tile, have fun

Before I joined *Nashville Software School*, I was teaching myself Python and needed a project to **test my abilities**.

2048 requires:

- *nested array manipulation/mathematics*
- *state comparison*
- *display and formatting techniques*
- *directional move event-handlers*
- *game over/high score* functionality

I decided this was perfectly suited for a Python pet project.

[github.com/rdbishop19/2048-game](https://github.com/rdbishop19/2048-game)

## ABOUT

I learned about **software development** working previously in a customer-facing technical role in the food production industry. This position introduced me to **Statistical Data Analysis, Regression Analysis, Machine Learning**, and programming and database management (**Python/SQL**).

Leveraging this technical experience and a decade of business experience, I transitioned into professional software development via *Nashville Software School*. I'm a **lifelong learner** and inspired by continuous improvement **principles**, software design **patterns**, and passionate **people**. Let's **solve problems** together!

## EXPERIENCE

### SOFTWARE DEVELOPER

Nashville Software School | Nashville, TN | Sep 2019 - Mar 2020

Full-stack 6-month web development program encompassing both individual and group project learning and experience in software design and production.

**Tech Stack:** Python, Django, SQL, React, JavaScript, HTML, CSS, Git, GitHub

#### Group Projects:

- Developed a personal dashboard single-page application to manage upcoming events, to-do lists, shared news articles, friends, and chat messages. This app encompassed 2 separate sprints, built first in **Vanilla JavaScript**, and again in **React**, both utilizing **JSON-server** for persistent data storage. I personally implemented **UI/UX affordances** for the Chat Messaging and Add a Friend features, and championed group-programming for the Authentication feature.
- Created an itinerary planner for visitors to Nashville to search restaurants, parks, meetups, and music concerts. I championed the **Eventbrite API** for fetching local event data, and also wrote reusable code for displaying result data across all 4 separate API endpoints and also for itinerary items. Built in Vanilla JavaScript with HTML and CSS and utilizing JSON-server for database management.
- Built a celebrity tribute to the fictional Office TV show character Pam Halpert (Beesly) using HTML, CSS, Flexbox, Visual Studio Code, Git, Github, and http-server. I championed repeated practice of the **Git/GitHub workflow** with my teammates, as this was our first experience using both platforms.

# RYAN BISHOP

## SOFTWARE DEVELOPER

RUNNER | PUZZLE MAKER  
SONGWRITER | EAGLE SCOUT  
PIZZA LOVER | WORLD TRAVELER

## EXPERIENCE CONTINUED

### FIELD APPLICATION SPECIALIST

Perten Instruments (A Perkin-Elmer Company) | Aug 2013 - Sep 2019

Analytical instrument company providing solutions for food ingredient screening, formulation, process monitoring, and final product quality control.

**Data Science:** machine learning using regression analysis of spectroscopy data via third-party and in-house data analysis tool-kits (**Unscrambler, MATLAB, SQL, Python, R**).

- I performed **data-wrangling** of customer *spectroscopy data sets* using Excel/Unscrambler software to match 3rd-party reference chemistry data
- I created **regression models** utilizing *supervised machine-learning* (Partial Least Squares Regression and k-nearest neighbors algorithms)
- I installed/updated **predictive models** on customer equipment to improve accuracy and provide *QA/QC process control*
- I **worked directly with customers** discussing ways to *improve their current predictive models and process control*
- I wrote **custom scripts** automating regression results reporting to *provide a standardized customer report format*
- I wrote **automation scripts** to *improve data analysis/data cleansing workflow*

**Technical Support/Customer Service:** installation, training, and troubleshooting of on-site analytical equipment and software, including near infrared (NIR) and rheology lab instruments, utilized for the functional and compositional analysis of grain, feed, food, flour, and seed products.

- I provided **live phone/remote desktop customer support** to *troubleshoot database and application issues*
- I gave **on-site multi-day customer training** of analytical equipment and software
- I provided **follow-up support/documentation** to customers

### MEDICAL TECHNICIAN

Memorial Medical Center | Springfield, IL | Nov 2010 - Aug 2013

- Surgical Pathology: I assisted Pathologists with preparing and processing surgical specimens
- Diener: I assisted Pathologists with performing autopsies
- Administrative: I created new documentation for new hires and to help improve work flow

## EDUCATION

### NASHVILLE SOFTWARE SCHOOL

Full-stack software development bootcamp | Nashville, TN | Sep 2019 - Mar 2020

### ILLINOIS COLLEGE

B.S. in Biology & Spanish | Jacksonville, IL | 2006 - 2010

### LITCHFIELD HIGH SCHOOL

Graduated Valedictorian | Litchfield, IL | 2002 - 2006