

RYAN BISHOP

SOFTWARE DEVELOPER

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EMPLOYER TO-DO

- APPLICATION EVAL.
- PHONE SCREEN
- HIRING MGR. INTERVIEW
- IN-OFFICE INTERVIEW
- FOLLOW-UP

SKILLS

- Software:**
 - Python, JavaScript, React, Django, SQL, HTML, CSS, Git, GitHub, JIRA, AutoHotkey
- Data Science:**
 - Data-wrangling/data-analysis
 - Supervised machine learning
- Strengths**
 - Creativity, critical thinking, problem solving
 - Teamwork, public-speaking, communication
 - Customer support/service
 - Agile, Lean/Six Sigma, project management

PROJECTS

DEBUG DOCKET *Front-End Capstone (NSS)*

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 approach software 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

2048-game *Python personal project*

Before joining *Nashville Software School*, I was teaching myself Python. I built this clone of my favorite mobile game to **test my skill level**.

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

github.com/rdbishop19/2048-game

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
Graduated *summa cum laude*

LITCHFIELD HIGH SCHOOL

Graduated Valedictorian | Litchfield, IL | 2002 - 2006

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 software development via *Nashville Software School*. I'm a **lifelong learner** and inspired by continuous improvement **principles**, software design **patterns**, and passionate **people**.

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:

- Personal dashboard Single-Page Application: 2 separate sprints, built first in **Vanilla JavaScript**, and again in **React**, both utilizing JSON-server for persistent data storage. Personally implemented **UI/UX affordances** for the Chat Messaging and Add a Friend features, and facilitated group-programming for User Authentication.
- Nashville Itinerary Planner application: search restaurants, parks, meetups, and music concerts. Championed **Eventbrite API** for fetching local event data, and also wrote and refactored dynamic functions for displaying results data across all 4 unique API endpoints.
- Celebrity tribute static HTML page: organized repeated group practice of the **Git/GitHub workflow** with team, as this was our first experience using both platforms.

FIELD APPLICATION SPECIALIST

Perten Instruments (a Perkin-Elmer company) | IL, TN | Aug 2013 - Sep 2019

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

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. NIR machines with installed regression models provide a customer solution that is fast, low-cost, and easy-to-use.

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

- Data-wrangling** of customer *spectroscopy data sets* using Excel & Unscrambler software to match 3rd-party reference chemistry data
- Regression models** utilizing *supervised machine-learning* (Partial Least Squares Regression and k-nearest neighbors algorithms)
- Installed/updated **predictive models** on customer equipment to improve accuracy and provide *QA/QC process control*
- Customer collaboration** discussing *predictive model & process control improvements*
- AutoHotkey scripts** automating *standardized customer regression reports*
- VBA automation scripts** improving *data analysis & data cleansing workflow*
- Phone/remote desktop **customer support** to *troubleshoot database and application issues*
- Onsite multi-day **customer training** of analytical equipment and software
- Follow-up **customer support/documentation**

MEDICAL TECHNICIAN

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

- Surgical Pathology:** assisted Pathologists with preparing and processing surgical specimens and performed diener duties during autopsies
- Administrative:** created new documentation to streamline onboarding for new hires