

PROFESSIONAL SUMMARY

Full Stack Developer with experience leading multiple projects using technologies like Java, Spring Boot, PostgreSQL, and JavaScript frameworks like Vue and React. Robust soft skills from 12 years prior experience in classroom teaching and librarianship leading technology-driven change, and now transforming career-long passion in technology to a software development role. Experience in building web applications and applying Agile methodologies throughout the software development process. Diligent learner and eager to dive into codebases to learn best practices, fix issues and build new features.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C

Frameworks & Technologies: Spring Boot, FastAPI, Docker, Vue.js, Vuetify, ReactJS, Mantine UI, PostgreSQL, RESTful APIs, Responsive Design, HTML, CSS, JSON

Development Tools & Practices: Agile, Git, Test Driven Development, Unit Testing (JUnit), Postman API testing, Pytest, IntelliJ, VS Code, command line

SOFTWARE DEVELOPER EXPERIENCE

Tech Elevator Software Development Bootcamp | Columbus, OH

Sept 2023 - Dec 2023

Full stack software bootcamp - learned how to create dynamic web-based software systems using Java providing 800+ hours of development education and application. Learned Java, Spring Boot, MVC design, PostgreSQL, JavaScript, Vue.js, Agile methodologies, test driven development.

- Final Team Project "Cover My Shift" ([GitHub repo](#)) – major contributor
 - Led the development of "Cover My Shift," a Spring Boot / PostgreSQL / Vue.js web application that helps teachers call off work and manage shifts
 - Contributed 75% of the code and led team of four developers through technical hurdles
 - Implemented test driven development practices to guide team members towards 100% test coverage of all JDBC/SQL methods
 - Guided the application of MVC design patterns in Java with Spring Boot to construct RESTful APIs, taking charge of database connections and queries to a PostgreSQL database, with my contributions being pivotal for each project milestone
 - Dockerized the project to enable team members to run on any device
 - Utilized Java Spring Boot with JDBC, PostgreSQL, Vue.js + Vuetify UI library, Vuex state management, Axios, Docker

Upper Arlington School Board Election Predictor | Upper Arlington, OH

Oct 2023 – current

I have a passion for predicting elections, polling and local politics, and decided to create a prediction engine for my city's school board election. – <http://www.ballotbear.app>

- Developed a predictive local election web app with a Python/FastAPI backend and React frontend, deploying automated CI/CD pipelines via GitHub Actions to Vercel and Fly.io
- Worked fast under tight deadline to finish before Nov. 2023 elections. Learned React, FastAPI and cloud deployment quickly to create a usable web front-end for the original Python script
- Learned Docker and included a multi-container setup in the repo to allow for easier deployment and development
- Utilized Python with FastAPI and Pydantic, React.js, Docker
- Future work: Add data visualization with Chart.js, add authentication, profiles, use Rust for computation, refactor UI with a library like Mantine

PROFESSIONAL EXPERIENCE

Columbus Collegiate Academy | Columbus, Ohio

Jul 2016 - Jul 2023

Taught and mentored hundreds of middle school students for seven years in a fast paced school environment with increasingly responsibilities. Created daily lessons, communicated learning concepts, worked in a tight-knit team environment, and heavily used technology to enhance learning.

As 8th Grade Department Chair & Technology Chair

Jul 2021 – Jul 2023

- Promoted to 8th Grade Team Lead: organized meetings, communicated with families about student concerns, faithfully implemented school policies and procedures
- Lead the adoption of the Edulastic digital testing assessment system and trained other district teachers to replace previous print and scan technology, reducing testing workflow time by 90%
- Developed and implemented QUERY-based spreadsheet tools for tracking student progress, visualizing data for families, enabling students to predict their grades, and adopted by teachers for wider use

As 8th Grade History Teacher

Jul 2016 – Jul 2023

- Implemented backwards planning to design and deliver daily US History lessons which met State of Ohio learning objectives
- Communicated, mentored and assessed over 90 students, grading over 7,000 assignments annually
- Developed a digital library with over 250 ebooks to enhance access to history texts through labeling, cataloging and screencasting

The College of Wooster | Wooster, Ohio

Jul 2011 - Jul 2016

Emerging Technologies Librarian

- Managed one full-time employee and five part-time students in a long-term digitization project
- Won national Library Journal [“Mover and Shaker”](#) award for innovative work in creating an open repository of successful cover letters
- Led the initiative for digital thesis submission, successfully training and advocating across campus to secure hundreds of student theses in the DSpace repository
- Mentored hundreds of undergraduate students through the library research process of their capstone projects, using research databases like Web of Science, Google Scholar and OCLC WorldCat to identify sources
- Created a Google Scripts workflow with publisher APIs to identify open access faculty publications for institutional reporting, and [published the results](#) in Code4Lib – cited 8 times in scholarly journals

EDUCATION

Master of Education-Computer Education Technology Ohio University | Athens, OH. 2016

Master of Science in Information University of Michigan | Ann Arbor, MI. 2011

Student project: Created Plain Language Medical Dictionary iOS app and [published in the App Store](#) as part of a paid internship with the Medical Library.

Bachelor of Arts-Political science major Lawrence University | Appleton, WI. 2009