

# Bryan McLain

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Former high school chemistry teacher. Driven to exceed expectations. Creative, analytical, and committed to excellence. Currently seeking a software development role with a firm striving for continued improvement and forward-thinking growth.

## Education

### Tech Elevator Java Coding Bootcamp

October 2021

Full stack development Java-based programming course

### The University of Akron, Akron, Ohio

December 2012

Master of Science, Curriculum and Instruction

### Oberlin College, Oberlin, Ohio

May 2008

Bachelor of Arts

Major: Biochemistry; Minor: Philosophy

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## Technology Skills

- **Object-Oriented Languages:** Java
- **Web Application Development:** HTML, CSS, JavaScript, Spring Boot, ReactJS, Vue.js
- **Database Programming:** PostgreSQL
- **Development tools and techniques:** Responsive Design, IntelliJ, Database Visualizer, Postman, GitHub, Unit Testing (JUnit), integration testing, agile development methodology, TDD

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## Technical Experience and Projects

- **Tech Elevator mini-capstone 1:** Java based vending machine app – a command line interface system designed to showcase fundamental object-oriented Java skills, including class structure, inheritance, core algorithms, creating and utilizing abstract methods, and reading and writing to files, wherein the user can select different items from a vending machine, and the application will dispense to the user, keeping track of money in the machine and creating a log text file.
  - **Tech Elevator mini-capstone 2 “Tenmo”:** Meant to demonstrate understanding of SQL, relational database management, and utilizing Java to interact with a database, Tenmo is collaborative command-line interface that simulated a Venmo-like application, where a user can transfer "TE bucks" between different users in the database (postgresql). RESTful API calls, Spring Boot, and JDBC template were applied in this project to connect the client and server-side applications.
  - **Side projects on GitHub:**
    - Molecular weight calculator
    - D&D Dice Roller
    - Counting Program for Kids
    - Consuming Coinbase API command-line interface
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## Professional Experience

**Granville High School, Granville, OH**  
Chemistry Teacher

August 2015 – May 2021

- Rebuilt the AP chemistry program, creating new data-driven labs resulting in a significant increase in student achievement and pass rate on the AP chemistry exam
- Created classroom activities that encouraged collaborative learning including hands-on activities where students used their Chromebooks to collect data and analyze their results
- Collaborated with the science department on best practices for daily science instruction, building common assessments and instructional methods

**Westerville South High School, Westerville, OH**  
Chemistry and Biology Teacher, long term substitute

August 2013 – June 2014  
March – May 2015

- Directly instructed students through lecture using technology to enhance teaching
- Developed accommodations and modifications as necessary for students on IEPs and 504 plans in cooperation with special education teachers

**The Ohio State University, Columbus, OH**  
Research Assistant III in Microbiology Department

Sept 2014 – March 2015

- Utilized multiple biological assays to research antibiotic resistance in *C. difficile*
- Organized and catalogued laboratory supplies according to OSU safety standards
- Purified multiple mutants of sigma 70 for research related to transcription
- Designed new research methods and presented findings regularly before peers