

JOHNATHAN T. DEWEY

Software Engineer

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Disciplined computer engineer with 6 years' experience in high-level computer programming languages.

SKILLS

Java | Python | SQL | HTML | CSS | PHP | JavaScript | C++ | MIPS Assembly
Java APIs (JavaFX, Three.js) | Agile Development | Object-Oriented Programming
Code Efficiency | Data Mining | Machine Learning | Cooperative (Egoless Programming)
Resilient | Resourceful | Reliable

PROFESSIONAL EXPERIENCE

Information Technology Technician • Furman University IT • Greenville, SC 01/2021 - 05/2024

- Consulted with uniformed students and faculty to resolve tech issues, promoting the health and security of the university's internet users.
- Responded to campus-wide security breaches and defended university internet security through quarantining and repairing affected PCs.
- Implemented and guided users through business applications such as *Workday*, Learning Management systems such as *Moodle*, and security software such as *Duo* and *Trend Micro*.
- At an annual install event for incoming freshmen, worked diligently with a team to process and install security software for about **500 students**, establishing secure internet users for the incoming class.

Research Assistant • LSU's DeepDrug (Python, C++) • Baton Rouge, LS 05/2022 - 08/2022

- Implemented source code for two tools: *eMolFrag* and *eSynth*. *eMolFrag* analyzes molecular fragments and creates relationships to other similar fragments—coded in **Python**. *eSynth* synthesizes new molecules built from fragments—coded in **C++**.
- Worked with a peer to complete system-wide refactoring for *eMolFrag*, resulting in improved run-time efficiency by **93%**, and reduction of source line code by **80%**.
- Created frequency and distribution analysis features for *eSynth*, creating a feature to run statistical analyses.

Tricaster Operator • Furman University Multimedia • Greenville, SC 08/2022 - 05/2024

- Filmed students and faculty presentations using a lightboard and produced a moving picture file for their use.
- Learned and applied efficient "Tricasting" techniques, resulting in smoother movements and improved video quality.
- Adjusted audio to best capture public speaking voice, resulting in clear and crisp audio.

Teaching Assistant • Furman University • Greenville, SC 08/2022 - 01/2023

- Assisted students during lab time with questions pertaining to programming syntax, structure, and efficiency, resulting in the assisted completion of labs.

- Reinforced knowledge of previous course content, resulting in an increased perception of algorithms and data structures

Peer Tutor • Furman University • Greenville, SC

08/2022 - 01/2023

- Tutored intermediate Computer Science courses to all grades, resulting in the assisted completion of difficult labs and assignments.
- Created sympathetic bonds and casual relationships with struggling students, resulting in the fostering of a growth mindset and improvement in a student's resiliency to challenging problems.
- Involved in mandatory training on how to teach content to students effectively, resulting in the application of best practices in education.

Barista • Yellow Mug Coffee Company (Hospitality) • Weaverville, NC

02/2023 - 03/2023

- Supported local businesses through the service of caffeinated beverages, alcohol, and food to **200 daily** customers—maintaining a **4.8-star** review rating.
- Engaged with customers in an elegant manner which increases satisfaction and keeps a good reputation.
- Cooperated with a diverse team to efficiently complete orders and maintain the sanitization of the restaurant, maintaining an A+ (**98.5**) food grade rating.

LANGUAGES

English – Native Language

Japanese – Limited Working Proficiency

EDUCATION

B.S. Computer Science – Furman University (3.5 GPA)

B.A. Japanese Studies – Furman University (3.78 GPA)