BRITTNI WATKINS

blwatkins@smu.edu
https://blwatkins.github.io/

Summary

Gifted, self-motivated professional with a love of learning and discovery. Avid reader and highly-skilled computer scientist with a broad range of interests and a focus on community involvement and service.

Work Experience

- **Teaching Assistant – Southern Methodist University, Computer Science Department**
  CSE 1341: Principles of Computer Science, Java
  Fall 2017 – Spring 2019
  - Led weekly lab sessions to discuss assignments, review class topics, and answer programming questions
  - Graded programming assignments

- **Teaching Assistant – Southern Methodist University, Computer Science Department**
  CSE 1342: Programming Concepts, C++
  Spring 2019
  - Led weekly lab sessions to discuss assignments, review class topics, and answer programming questions
  - Graded programming assignments

- **Teaching Assistant – Southern Methodist University, Computer Science Department**
  CSE 1340: Introduction to Computing Concepts; HTML, CSS, JavaScript, JQuery, Microsoft Excel, SQL
  Fall 2018
  - Led weekly lab sessions to discuss assignments, review class topics, and answer programming questions
  - Graded programming assignments

- **Teaching Assistant – Southern Methodist University, Data Science Department**
  MSDS 6390: Visualization of Information, Java/Processing
  January 2017 – Fall 2017
  - Assisted with weekly online class sessions
  - Graded programming assignments
  - Answered programming questions via email or video conference

- **Teaching Assistant – Southern Methodist University, Data Science Department**
  MSDS 6391: Visualization of Information and Creative Coding II; Java/Processing,
  *   C++/openFrameworks, HTML, JavaScript, p5.js, D3.js*
  January 2017 – Fall 2017
  - Assisted with weekly online class sessions
  - Graded programming assignments
  - Answered programming questions via email or video conference

- **Research Assistant – Southern Methodist University, Creative Computing Department**
  Summer 2015 – Summer 2017
  – Performed administrative duties for the Center of Creative Computation (email correspondence, ordering class supplies, filing paperwork)
  – Assisted in the development of the visual graphics library Protobyte (C++)
  – Developed ideas for student engagement in the Center of Creative Computation

- **Teaching Assistant – Southern Methodist University, Creative Computing Department**
  CSE 1341/ASIM 1310/CRCP 1310: Principles of Computer Science, Java/Processing
  Fall 2015 – Summer 2017
  – Led weekly lab sessions to discuss assignments, review class topics, answer programming questions, and introduce additional creative topics
  – Graded programming assignments, quizzes, and exams
  – Designed creative programming assignments for students

- **Teaching Assistant – Southern Methodist University, Creative Computing Department**
  CSE 1342/ASIM 3305/CRCP 3305: Programming Concepts, C++/openFrameworks
  Summer 2016 – Summer 2017
  – Led weekly lab sessions to discuss assignments, review class topics, answer programming questions, and introduce additional creative topics
  – Graded programming assignments, quizzes, and exams
  – Designed creative programming assignments for students

- **Teaching Assistant – Southern Methodist University, Creative Computing Department**
  SMU-in-Tokyo Study Abroad Program
  Summer 2017
  – Assisted professor in ensuring the safety and comfort of all students
  – Answered programming questions
  – Provided feedback to professor about students' final projects (effort, improvement, and overall performance)

- **Tutor (Computer Science, C++)**
  Spring 2016
  – Reviewed past quizzes and exams with students to identify problem areas
  – Held weekly personal tutoring sessions to answer programming questions

- **Music/Media Processing Student Assistant – Southern Methodist University, Central University Libraries**
  Summer 2014 – Spring 2015
  – Review, print, and secure labels for books, scores, CDs, and DVDs
  – Cut and apply security tape to books, scores, CDs, and DVDs
  – Bind scores into plastic folders
  – Route "to be bound" books to proper library staff
  – Match scores with appropriately sized folders

- **Periodicals Check-In Student Assistant – Southern Methodist University, Central University Libraries**
  Summer 2014 – Spring 2015
  - Check in and label periodical materials for Fondren Library and Hamon Arts Library (magazines, newspapers, and journals)
  - Cut and apply security tape to periodical materials for Fondren Library and Hamon Arts Library (magazines, newspapers, and journals)
  - Check current subscription status for various online publications
  - Check library book plates for proper spelling

Education

- M.S. in Computer Science, Southern Methodist University, Dallas, Texas, 2019
- B.A. Creative Computing with Minors in Music and Computer Science, Southern Methodist University, Dallas, Texas, 2017

Achievements

- 2018. Watkins, Brittni. "Chord Progressions in Haskell." International Conference on Functional Programming, St. Louis, MO.
- Watkins, Brittni. "Protobyte, Creative Coding and Me." *Southern Methodist University*, 8 Oct. 2015, https://www.smu.edu/Meadows/NewsAndEvents/News/2015/151008-CreativeCoding.
- Southern Methodist University Engaged Learning Fellow, *Data Structures from a New Perspective*, October 2015

Programming Languages

- Java
- C++
- Python
- Haskell
- HTML
- JavaScript
- PHP
- SQLite
- MySQL
- XML
- RDF (Turtle, RDFa)

Skills

- Problem Solving
- Active Listening
- Communication Skills
- Computer Skills
- Microsoft Office (Word, Excel, PowerPoint)
- Organization
- French (Intermediate Fluency)
- Italian (Beginner Fluency)
- Refactoring Code

Interests

- Song Writing (Copyrights Obtained: 67 Songs, 2007–2015)
- Music Performance (Guitar and Piano)
- Reading
- Knitting and Crochet
- Puzzles
- Creative Coding
- Creative Data Visualization
- Data Organization

Community Service

- Core Team: Curriculum Lead, Black Girls CODE Dallas Chapter, November 2018 – Present
- Adult Volunteer, Grapevine Public Library, 2014 – Present
- Tech Instructor, Black Girls CODE, Virtual Reality Workshop, October 2018
- Tech Volunteer, Black Girls CODE, Digital Making Workshop, September 2018
- Tech Volunteer, Black Girls CODE, Summer Camp (Python), August 2017