

# AMY BEARD

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GitHub

LinkedIn

amybeard.ca

## TECHNICAL SKILLS

- Languages: Python, C, JavaScript, Java (Swing), HTML, CSS
- Operating Systems: macOS, Linux
- Development Tools/ Libraries: Bootstrap, jQuery, GitHub/ GitLab, Docker, Junit, PMD Source Code Analyzer
- Task Management: Trello, Slack, Replit

## RELATED COURSES

- Analysis & Design of Computer Algorithms
- Operating Systems
- Software Systems Development and Integration
- Object-Oriented Programming (Java)
- Software Design 1, 2, 3 (Python & C)

## CERTIFICATIONS

- Responsive Web Design
- JavaScript Algorithms and Data Structures

## SKILLS

- Critical Thinking
- Problem-Solving
- Organization
- Collaboration
- Communication
- Creativity

## EDUCATION

**Bachelor of Computing, Software Engineering (Co-Op),  
Minoring in Mathematics,  
University of Guelph**  
2022-present

## ACADEMIC PROJECTS

### Mancala

Oct - Dec 2023

- Java-based replication of the board game Mancala
- Both TextUI and GUI versions
- Developed using Java Swing
- Used JUnit and PMD for testing and debugging

### Associative Array / Hash Tables

Nov 2023

- C-based project focused on learning about hash tables and hashing algorithms
- Command line-based and allows the user to complete insertion, query, and deletion operations on a hash table
- Compiled code is formatted into a library API for easy distribution and application

### Canadian Baby Name Database

Feb - Mar 2023

- Worked with a small team, using agile methodologies to create a system to organize large sets of data into data frames,
- Output organized data sets to the user per their requests.
- Utilized Python and the Pandas library to output data into CSV files for the user.

## WORK EXPERIENCE

### YMCA Camp Wanakita

June 2023-Sept. 2023

#### Out-Tripping Specialist

- Organized, packed, and facilitated 2-8 day educational canoe trips
- Responsible for maintaining and repairing camping equipment
- Led and guided 2 student-counselor, 6-day canoe trips

### YMCA Camp Wanakita

June 2022-Sept. 2022

#### Arts and Crafts Specialist

- Collaborated with a partner and overall staff team
- Organized, designed, and provided kids' summer camp art programming.
- Led and guided student counselors on a 6-day canoe trip.

### YMCA Camp Wanakita

June 2021-Sept. 2021

#### Kitchen Helper

- Organized meal service
- Facilitated meal preparation
- Provided quality service to clients.

### Wendy's

Sept. 2020- Mar. 2021

#### Cashier

- Efficiently took and processed orders using a POS system
- Ensured speed and satisfaction to the customers

## EXTRACURRICULARS

**Guelph Women in Computer Science (GWICS)**  
Member (Sept. 2022- Present)

**Society of Computing and Information Science (SOCIS)**  
Member (Sept. 2022- Present)