

# Hailey Martin

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## Summary

Software Engineer with a proven track record of creating modular and maintainable code in C, Java, and JavaScript. Deep interest in collaborating with others to develop and implement solutions. Personal projects include working on web development to build full-stack web applications.

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## Skills

Languages: Java, C, HTML, CSS, Javascript

Programming: Object-orientated Programming(OOP)

Collaboration: Github, MS Teams, Microsoft Office Suit

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## Relevant Experience

### Airbnb Clone(React, HTML, CSS)

Implemented the JS library React to work with the user interface to render components that made up a web application clone of part Airbnb.

- Made code reusable
  - Received props in a component so that the code would not be repetitive and could easily be reused.
- Read data from internal file
  - Created a file to hold data that would be used for mapping components.

### Finding the Right Airbnb(C)

Used guest needs and Airbnb restrictions, to file guests into appropriate destinations with data structures.

- Read guest and Airbnb data from files
  - Planning the appropriate destination for guests dependent on guests' needs.
- Used data structures to hold Airbnb and guest information
  - Single and Double-linked lists held guest and Airbnb information that determined their placement in the priority queue.

### Organization Charity Event(C)

Developed a program to use a self-referential structure to establish a linked list of organizations that could sign up for fundraisers

Applied the use of priority queues to simulate the transfer of ships between the Atlantic and Pacific oceans with the help of a control center

- Managed memory
  - Planning to use a Linked List provided a way to dynamically allocate memory on the heap to store various organizations.
- Iterated through a process to improve code
  - Program was evaluated for three iteration allowing to code to be maintainable and reusable.

### Canal Control Center(Java)

Applied the use of priority queues to simulate the transfer of ships between the Atlantic and Pacific oceans with the help of a control center

- Retrieved data to create Ocean and Ship objects
  - Data determined the different classifications for ships read from file to organize ships designated transitway between ocean objects.

- Produced channel and transitways using a queue and a Priority Queue
  - Generating the higher priority ship to determine which transitway was the correct location.

#### **Denver Nuggets tickets fundraiser(Java)**

Analyzed project requirements to calculate the number of tickets sold and produced a sales and charity summary.

- Implemented modular code
  - Designed modular code implementing functions that complied with the single responsibility principle(SRP).
- Designed an optimized algorithm
  - Reviewed project requirements to build a task list, and test cases to deliver a functional algorithm.

#### **Vehicle performance evaluation(Java)**

Evaluated five cars using aggregated objects to retrieve fuel consumption based on ten-mile increments.

- Executed object-orientated programming(OOP)
  - Developed a class structure to construct car objects for testing.
- Manipulated an array of objects
  - Recorded and updated changes to the car object's fuel gauge object.1991

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## **Work Experience**

**Customer Service at Lowe's, Colorado Springs, CO** September 2017 — Present

- Collaborated with a team of departments to build installation quotes and product checklists using best practices
- Communicating within a team to maintain department standards and meet quarterly goals