

# KATHERINE JOUETT

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## EDUCATION

### UNIVERSITY OF TEXAS AT AUSTIN

**EXPECTED GRADUATION: MAY 2022**

Bachelor of Science- Computer Science, Turing Honors

**COURSES TAKEN:** *Honors:* Data Structures, Discrete Math, Computer Architecture, Operating Systems

**COURSES TAKING:** *Honors:* Artificial Intelligence

## EXPERIENCE

### SPARKCOGNITION, INTERN

**WINTER 2020, AUSTIN, TX**

- Worked with QA and software development team
- Performed functional, ad-hoc, performance, and usability testing on NLP product

## PROJECTS

### ARM Emulator

- Interpreted a subset of instructions in both C and Verilog
- Optimized emulator to process 100 million instructions in less than 5 seconds and support multiple cores
- Created a nine-stage pipeline for a multi-cycle design
- Developed test cases in assembly and debugged using GDB and GTKWave

### CHIP-8 Emulator

- Created an emulator in Java that interpreted and executed the original CHIP-8 instruction set
- Used the libgdx framework to provide graphics

### WebCrawler

- Crawled through a large set of web pages to build index
- Stored words in inverted index to support user searches
- Built a parser that supported basic, negative, and phrase queries

### Tetris

- Created an AI application to play an implementation of Tetris
- AI analyzed board fill to determine most optimal move

## SKILLS AND AWARDS

- Proficiency in: Java
- Experience in: C++, Python, Javascript, HTML, CSS, Verilog, Assembly, Git, Linux
- Interests: crosswords and logic puzzles, music, crochet and embroidery
- Greater Texas Foundation Scholarship
- University of Texas College of Natural Sciences Scholarship
- National Center for Women & Information Technology for Aspirations in Computing- Dallas/Fort Worth

## ACTIVITIES

- Turing Scholar Student Association, member
- Coding in the Classroom outreach, mentor
- Women in Computer Science, member
- First Bytes/Code Longhorn, Program Assistant