

Austin Miles

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EDUCATION

- **Brown University** Providence, RI
Pursing Bachelors of Science - Computer Science; GPA: 3.67
Courses: Data Structures, Computer systems, Honors Linear Algebra
August 2020 - May 2024
- **North Carolina School of Science and Mathematics** Durham, NC
High School Diploma; GPA: 4.5/4
August 2018 - May 2020

SKILLS SUMMARY

- **Programming Languages:** Java, C, Scala, ReasonML
- **Languages:** German, Japanese
- **Other Technical:** Git, L^AT_EX, Linux
- **Soft Skills:** Leadership, Teamwork, Public Speaking, Time Management

EXPERIENCE

- **Computer Science Teaching Assistant** Brown University
TA for Computer Science: An Integrated Introduction
Sep. 2021 - Dec. 2021
 - **TA Hours:** Weekly held office hours for students to ask questions.
 - **Project Work:** Received in-depth interaction with and knowledge of class projects such as creating new handouts and material
 - **Grading:** Spent 4 hours each week grading students homework
- **Research Volunteer** North Carolina State University
Research Assistant (part-time)
Sep. 2019 - Feb. 2020
 - **Published Paper:** Collaborated on a scientific paper: "Mechanical and Electrical Properties of DNA Hydrogel-Based Composites Containing Self-Assembled Three-Dimensional Nanocircuits"
 - **In-Lab Research:** Spent 5+ hours per week reading research papers and experimenting in lab on DNA Hydrogels
- **RLA** North Carolina School of Science and Mathematics
Residential Life Assistant
Sep. 2019 - May 2020
 - **Nightly Roll Call:** Took nightly roll-call to ensure safety and security of fellow students
 - **Foster Community:** Created and developed a positive living environment for 35 hall mates designed to link community, faculty, and residents

PROJECTS

- **Shell - computer terminal (C):**
 - **User Input:** Extensive error checking included to prevent user input from crashing shell
 - **Builtin Commands:** Supports various builtin commands: cd, cat, rm, ln, exit. While also providing use of non-builtins by including path name
 - **Redirection:** Supports file redirection symbols
 - **Signals:** Jobs and processes can be controlled through the terminal with control of signals
- **Search - small search engine (Java):**
 - **Indexer and Querier:** Implemented a basic indexer and querier search engine that is space and time efficient by using Hashmaps.
 - **PageRank:** Implemented Google's PageRank algorithm with the ability to suggest files based on certain input
 - **XML capability:** Supports reading in information and searching over a formatted XML file
- **Connect4 (ReasonML):**
 - **In-terminal:** Developed in-terminal version of connect4 with two-player or player-AI capability
 - **Minimax Algorithm:** Implemented Minimax Algorithm with a working AI player to play against the player
 - **Functional Language:** Implemented entirely using recursion inside ReasonML (a functional programming language)