

# Michael Cameron Doherty

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**OBJECTIVE:** Seeking a summer internship to further my knowledge of software development and to apply my problem-solving skills to solve the tasks at hand.

**EDUCATION:** Southern Methodist University Dallas, TX  
Bobby B. Lyle School of Engineering Graduation date: May 2024  
Bachelor of Science in Computer Science GPA: 3.966/4.00

**SKILLS:**

**Programming languages:** Java, C++, Python, HTML, CSS, JavaScript, React.js, Assembly

**Additional experience:** GitHub, CATCH2 Tests

**RELEVANT COURSES:** Data Structures, Fundamentals of Algorithms, Scientific Computing, Software Engineering Principles, Graphical User Interface Design and Implementation, Assembly Language Programming and Machine Organization

**PROJECTS:**

**Search Engine – Co-Creator**

- Built a search engine that accepted simple Boolean queries and searched a dataset of 300,000 JSON files.
- Search engine was comprised of a query engine, an index handler, a document parser, and an inverted file index.

**Sudoku Solver – Creator**

- Built a program that can solve any solvable sudoku puzzle using a backtracking algorithm.

**Auto Indexer – Creator**

- Built a program that created an index of bracketed terms within a given text file.
- Bracketed terms could be nested.

**Sentiment Analyzer – Creator**

- Built a program that read a dataset of tweets with positive or negative sentiments, analyzed the frequency of words in the positive or negative tweets, and used this data to determine the sentiments of a new dataset of tweets.

**AWARDS AND ACTIVITIES:**

SMU Provost Scholar    SMU Discovery Scholarship    Computer Science Club