

# JAMES VERSCHLEISER

Hinman Box 4611, Dartmouth College, Hanover, NH 03755 • 516-497-1146 • Jamesversch@gmail.com

## EDUCATION

---

**Dartmouth College**, Hanover, NH  
*Bachelor of Arts, Double Major in Computer Science and Economics*  
ACT Score: 35

**June 2022**  
**GPA 3.82/4.0**

## KNOWLEDGE

---

### Topics Studied

- Machine Learning, Statistical Data Analysis, Algorithms, Object-Oriented Programming, Discrete Mathematics in Comp Sci, Software Design and Implementation, Applied Comp Sci, Smartphone Programming (Winter 2021)

### Languages and Skills

- Python, Java, C, Matlab, Unix/Linux, Git, SQL, HTML, CSS, Jupyter, testing and debugging

## PROJECTS

---

**Chess-** I created a playable chess game in python that allows for multiplayer or games against the computer

- Fulfills all rules of the game including the concepts of castling, en passant, and the inability to move into check
- Implemented a simple minimax algorithm to allow users to play against the computer

**Amazon Review Analyzer-** Used machine learning and neural network techniques to create models that could predict scores of Amazon products based on user reviews

- Used techniques like natural language processing, sentiment analysis, K-Fold Cross Validation, and TF-IDF
- Used classification methods including Logistic Regression, Naïve Bayes, Linear SVM, and Decision Trees
- Ultimately was able to predict whether a product would have a high or low rating with an F1-score of .83

**Sudoku-** Worked in a three-person team to develop a complex sudoku application that could generate puzzles with unique solutions and then solve them. Users were also able to enter their own puzzles to be solved by the computer

- Personally responsible for the solving portion of the project as well as the user interface
- Implemented a backtracking algorithm to solve the puzzle as well as determine if there were multiple solutions
- The program's backend was programmed in C and compiled into the Python UI

## ADDITIONAL ACTIVITIES

---

**Dartmouth Tamid**, Hanover, NH

**September 2019 - Present**

*Founder and President*

- Led the effort to create a Tamid chapter at Dartmouth College, in which I was responsible for getting college approval, growing membership, raising startup costs, and running meetings
- Increased the organization's membership from essentially just me to having over 25 members in less than one year
- Consulted for real life startups (including MoneyCompass.io) who wanted information regarding American college-aged consumers, where I conducted market research and interviewed members of Dartmouth's administration
- Competed in mock consulting case and stock pitch competitions against other colleges, where I created multimedia presentations that provided solutions for realistic problems

**Dartmouth Investment and Philanthropy Program**, Hanover, NH

**September 2018 - Present**

*Portfolio Monitor*

- Managed general members in the creation and presentation of stock pitches with in-depth valuation models
- Monitored a certain portion of the organization's half a million-dollar portfolio of holdings and gave weekly updates to the rest of the club's leadership on recent events and idiosyncratic risks
- Followed and analyzed macroeconomic trends and measured our portfolio's exposure to certain market risks
- Designed multimedia presentations to demonstrate my pitch group's predictions that were based on advanced DCFs

**Dartmouth College Departments of Economics and Computer Science**, Hanover, NH

**January 2019 - Present**

*Tutor*

- Official tutor for Dartmouth College that helped students in basic Economics and Computer Science courses
- Adapted teaching styles in differing ways to accommodate each student's personal learning style
- Helped struggling students prepare for exams and aided them with problem sets