

# Navina Mahesh

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**EDUCATION** University of California, San Diego  
Expected Graduation: June 2023  
Intended major: Computer Science  
Major GPA: 4.0  
Cumulative GPA: 3.9

**COURSEWORK** **College Coursework:** Introduction to CS Part I: Python and Java, Introduction to CS Part II: Java, Basic Data Structures and Object-Oriented Design, Software Tools and Techniques Lab, Discrete Mathematics, Calculus for Science and Engineering, Calculus and Analytic Geometry for Science and Engineering

**SKILLS** Python, Java, C++ HTML, CSS, Unix

**EXPERIENCE** **Research** May 2020 - Sept 2020

- Worked with Professor Gerald on research centered around Computer Science Education
- Conducted data analysis with Python (Pandas, NumPy, SciPy) to understand why transfer students struggle to succeed in lower division CS classes
- Submitted our research paper to the SIGCSE Technical Symposium for March 2021 (largest computing education conference worldwide)
- Research paper: <https://bit.ly/2QSyJAs>

**Computer Science Tutor (UCSD CSE department)** September 2020 - December 2020

- Upcoming tutoring position for CSE 8A [Introduction to CS (Java)]
- Duties include hosting lab hours to clarify introductory concepts such as looping, conditionals, syntactical issues etc.
- Other responsibilities include assisting students in debugging programs and grading exams as well as programming assignments using Gradescope

**AthenaHacks at USC** April 2020

- Built a game to teach college students about living a balanced life by allowing the user to make a series of conflicting choices.
- The game updates their mental health, academic, social and sleep levels based on the choices they make. If any level gets depleted (or maxed out), the user loses the game.

**PROJECTS** **2048**

- Created a Java version of the single-player game 2048 so that it can be played in the terminal (text-based)

**Movie ratings predictor**

- Implemented a Java version of the bag of words model used in Machine Learning
- Created a program that predicted ratings of movie reviews based on analysing previous reviews that already had ratings associated with them.

**Pokemon game simulator**

- Implemented a simplified Pokemon game simulator in Java
- Simulator could battle a wild pokemon, catch a pokemon and interact with the pokemon storage system (which trainers can use to store their pokemons)