

# MEHRIN SHIRIN KHAN

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## EDUCATION

**Claremont McKenna College, Claremont, CA**

**May 2026**

*Bachelor of Arts in Computer Science and Economics with Data Science sequence*

- Awards & Activities: McKenna Scholar, Randall Lewis Center for Innovation and Entrepreneurship Fellow
- Relevant Courses: Data Structures/Program Development, Discrete Mathematics, Accounting for Data Analytics, Computer Science Practicum (In Progress)

Principles of Computer Science, Economics Statistics, Linear Algebra, Multivariable Calculus, Intermediate Microeconomics, Introduction to Computer Science, Accounting for Decision Making.

## SKILLS & INTERESTS

- **Technical:** Excel, MS Office, Python, HTML, Git, Racket, Java, STATA, Assembly, R, Google Analytics, Canva
- **Interests:** Solo Travelling, money hacks (personal finance strategies), reels, vlogging, makeup, reading-writing

## COURSE PROJECTS

**Spampede | Snake Game Controller (Java, MVC, AI)**

[Repository](#)

- Designed and implemented an MVC-based game controller, SpampedeBrain, integrating artificial intelligence (AI) for snake movement, user inputs, and immersive visuals using Stampede Display. Proficient in Java, collision handling, and sound management, demonstrating advanced game development expertise.

**Matchairs | Text Based AI Opponent Number/Emoji Matching (Python)**

[Repository](#)

- Programmed a creative and dynamic text-based number matching game in Python, where players and AI find pairs on a 6x7 grid, earning points for matches. Key features include interactive gameplay, memory challenges, AI opponent, and real-time scoring.

**Scrabble | Valid Word Finder (Racket)**

[Repository](#)

- Developed a Racket program efficiently identifying valid Scrabble words. Demonstrated expertise in recursion and list manipulation for efficient word validation and scoring

**Happiness Index | Data Analysis and Regression Modelling (Collaborative Project)**

[Repository](#)

- Led a collaborative data analysis project on the Happiness Index. Demonstrated expertise in statistical modeling and presented findings with regression and residual plots, showcasing strong analytical and presentation skills within a team setting

**Markov TextGen | Text Generation using Markov Chain Model (Python)**

[Repository](#)

- Implemented a Markov chain-based text generator in Python, showcasing proficiency in algorithms and data structures for creative and contextually relevant content generation.

**Fibo | Fibonacci Number Generator (Assembly Language)**

[Repository](#)

- Developed an efficient Fibonacci number generator in Assembly Language, demonstrating expertise in low-level programming and optimized algorithm implementation

## EXPERIENCES

**CMC -Dept of Strategic Communication and Marketing, Claremont, CA**

**Oct 2023-Present**

*Web Assistant*

- Elevated CMC's website UX, driving increased traffic and user engagement through adept SEO strategies and user-friendly design implementations.
- Contributed to backend development for seamless functionality. Implemented effective SEO strategies, leveraging tools like SEMrush and Google Analytics. Researched and enhanced online visibility for 11 CMC research institutes, providing valuable marketing insights.

**MEHK, Dhaka, Bangladesh**

**May 2019 - Present(Seasonal)**

*CEO, Founder*

- Managed successful venture with 750+ customers, enhancing customer service and crisis management skills in
- Boosted profits by 125% through strategic social media advertising, content creation, and effective communications.

**BRAC USA, New York City, USA**

**May 2023 - Aug 2023**

*Research, Learning and Innovation Intern*

- Created academic journals database for research evaluation in international development and digital finance, including budgeting for Women Economic Empowerment and Digital Finance (WEE-DiFine) initiatives.
- Authored report on Intimate Partner Violence, analyzing academic articles and BRAC policies, demonstrating research and analytical skills.

**The Murty Sunak Quantitative and Computing Lab, Claremont, CA**

**Jan 2023 - Aug 2023**

*Mentor*

- Tutored college students in Multivariable and Single Variable Calculus, providing personalized academic support and assisted professors in organizing computational workshops.