Ekansh Arora

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EDUCATION

University of Illinois Urbana-Champaign   *Expected Graduation: Dec 2027*
Bachelor's of Science in Computer Science + Mathematics   *GPA: 4.0*

EXPERIENCE

Clabbers
Founder & Developer   *January 2023 – December 2023*

- Developed cross-platform mobile app using Flutter with 100+ daily active users, ranking #7 on iOS Word Games
- Partnered with the Scrabble Association of India to integrate the app into tournament preparation for 500+ national-level players
- Implemented Python data processing scripts using Pandas for categorization into 2-9 letter words

PROJECTS

Matched.lol
Lead Frontend Developer   *August 2024 - Present*

- Built website in Next.js + React & mobile app in Flutter, leading development on profile builder, dynamic champion selection, and real-time player stats integration features
- Implemented matchmaking algorithm using SQLite3 database that pairs players based on rank

TikTok Content Generator
AI Development Contributor

- Used Llama-3 and scraped Reddit data using Python to simulate AI-generated TikTok content.

PUBLICATIONS

Effects of AI in Scrabble
Author, International Journal of Computer Trends and Technology (IJCTT)   *April 2023 - October 2023*

- Analyzed algorithms including DAWG vs GADDAG to solve word games, **proving GADDAG's 2x speed optimization despite 5x memory overhead**
- Conducted statistical analysis of 500+ AI vs human Scrabble games
- Established insights into algorithmic efficiency in incomplete information games

ACTIVITIES AND LEADERSHIP

Scrabble Association of India (SAI)
Country Representative, Exec. Member & Int'l Player   *June 2017 – August 2024*

- Coordinated over 10 national tournaments with SAI, expanding competitive play across 5 states
- Mentored 10+ aspiring players in Scrabble fundamentals under SAI Buddy Program
- Planned monthly meetups for 20+ newcomers to boost game outreach

AWARDS

- Winner @ National Scrabble Championship, Semifinalist @World Youth Scrabble Championship
- Bronze Medalist, Southeast Asian Mathematics Olympiad (SEAMO)
- Qualifier, Indian National Olympiad in Informatics (INOI)

SKILLS

Programming: Python, Dart, Kotlin, Java, JavaScript, HTML/CSS, C++
Frameworks: Flutter, React, React Native, Next.js, Pandas, Firebase, Git