

Advait Rajesh Bharadwaj

(+1) 4132756640 | abharadwaj@umass.edu | <https://www.linkedin.com/in/advaitbharadwaj> | <https://github.com/ShadowKrius>

EDUCATION

University of Massachusetts Amherst

Amherst, MA, USA

Manning College of Information & Computer Sciences and College of Natural Sciences

GPA: 3.651/4.00

Bachelor of Science in Computer Science and Mathematics (Statistics and Data Science)

May 2026

- **Honors:** Dean's list; **\$46,000 Chancellor's Award**
- **Courses:** Data Structures and Algorithms; Programming Methodologies; Computer Science Principles; Reasoning Under Uncertainty; Discrete Mathematics; Multivariate Calculus; Linear Algebra

EXPERIENCE

Roommatez

Creator and Co-founder

June 2024 — Present

- Developed a **full-stack cross-platform** mobile application for college roommate matching using **Flutter, Dart, and Firebase**.
- Implemented **real-time data synchronization, user authentication, push notifications, in-app messaging, and preference-based filtering** to enhance user compatibility.
- Utilized agile development methodologies, CI/CD pipeline, and version control with git, and conducted code reviews.
- Designed scalable system architecture, optimized caching strategies, and deployed it on Google Play Store; finalizing iOS version.

Manning College of Information and Computer Sciences

Amherst, MA

Undergraduate Research Volunteer

May 2024 — September 2024

- Contributed to research comparing the performance of **Classical Machine Learning** models against **Quantum Machine Learning** models.
- Performed data analysis and classification using an extensive dataset with over **100,000 genomic sequences**.

PROJECTS

Chess Engine (Python; Pygame)

- Built a Python-based chess project utilizing Pygame for interface design, enabling two-player matches. Implemented a sophisticated chess engine employing the **Nega Max algorithm with Alpha-Beta Pruning** for challenging single-player gameplay.

CERTIFICATIONS

Google Cybersecurity Professional Certificate offered by Google Career Certificates

Coursera

Professional training designed and delivered by subject matter experts at Google

May 2023 — July 2023

- Procured experience in: Python, **Linux, SQL, Security Information and Event Management (SIEM) tools, Intrusion Detection Systems (IDS)**

Excel Skills for Business Specialization offered by Macquarie University

Coursera

Advanced Excel skills for business taught by the top professors at Macquarie Business School

May 2022 — July 2022

- Acquired expertise in advanced Excel, including creating complex spreadsheets, managing large datasets, extracting insights, preventing errors, automating tasks, and using advanced formulas for forecasting and data modeling.
- Gained proficiency in: **Data Validation, Recorded Macros, Pivot Tables, Graphs, Charts, Lookups**

LEADERSHIP

Manning College of Information and Computer Sciences

Amherst, MA

Undergraduate Course Assistant for CS110

September 2024 — Present

- **Conduct weekly discussion sections** and supplement the professor by coordinating study groups, conducting office hours, overseeing exam procedures, addressing student inquiries via email and Piazza, evaluating homework assignments for **300+ students**, and offering **constructive feedback** to empower students.

College of Natural Sciences at UMass Amherst

Amherst, MA

Undergraduate Teaching Assistant for Math127

September 2023 — Present

- Support the course of **200+ students** by aiding in lecture delivery, **coordinating study groups, conducting office hours**, overseeing exam procedures, addressing student inquiries via email, and fostering effective collaboration with peers and the supervising professor.

Homework House (NGO)

Holyoke, MA, USA

Voluntary Tutor

September 2022 — December 2022

- Contributed to Homework House's ambition of strengthening the quality of education for all children in Holyoke by providing them with **individualized academic and social support** in a **safe and nurturing environment**
- Assisted **students enrolled in 1st through 7th grade** with homework completion and improvement of reading and math skills and helped **enhance the self-esteem and confidence** of the students through encouragement and positive reinforcement

TECHNICAL SKILLS

Languages: Python; Java; C; JavaScript; TypeScript; HTML/CSS; Dart;

Libraries: Pandas; TensorFlow; NumPy; Matplotlib; Scikit-learn; Qiskit;

Tools & Frameworks: Flutter; Firebase; Git; Jupyter; Swift; ReactJS; NextJS;