

Anish Kanade

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EDUCATION

University Of Massachusetts Boston

Bachelorette of Science in Computer Science

Boston, MA

Expected 2025

Courses: Introduction to Computing, Intermediate Computing with Data Structure, Applied Discrete Mathematics, Programming in C, Advanced Data Structures and Algorithm, Computer Architecture and Organization, Introduction to Theory of Computation, Database Management, Computer Game Programming, Artificial Intelligence, Introduction to Software Engineering, Higher Level Language, Compilers.

Cambridge Rindge and Latin School

Rindge School of Technical Arts- Computer Science Program

Cambridge, MA

2017-2021

Courses: Web Development, Applied Computer Science Principles, Artificial Intelligence and Machine Learning.

SKILLS

Languages and Web Development: Java, Python, C, C++, HTML, CSS, JavaScript, MySQL, React, Node JS, Racket.

Tools and Methodologies: IntelliJ, Pycharm, VS Code, GitHub, Webstorm, Unity Hub, Amazon Mechanical Turk.

Soft Skills: Leadership, Critical Thinking, Strong Analytical Ability, Project Management, Teamwork, Customer Service.

PROJECTS

Percolation (Java)

APRIL 2022 - MAY 2022

- Analyzed and solved complex percolation problems in Java by applying scientific principles to model and study provocation phenomena.
- Applied Sierpinski principles and Java programming to tackle the problems, conducted data analysis, and generated plots to visualize the relationship between site vacancy and percolation probability.
- Demonstrated a strong grasp of statistical and probabilistic concepts, effectively communicating results and insights.

Markov Model (Python)

OCTOBER 2021 - NOVEMBER 2021

- Developed a Python-based first-order Markov model capable of predicting text sequences using probability transition matrices using Object-Oriented programming principles.
- Utilized Python with Object-Oriented programming principles and NumPy library for efficient matrix operations, analyzing extensive training data to generate realistic text sequences.
- Showcased advanced natural language processing skills and ensured the model's scalability and performance with large datasets.

Ambient Lights (C++)

JANUARY 2021 - APRIL 2021

- Designed and implemented a custom ambient lighting system to enhance the aesthetic appeal and mood of interior space.
- Utilized Arduino microcontrollers and C programming to integrate sensors (motion detectors and light sensors) and developed a customized lighting pattern for automatic adjustments based on environmental conditions.
- Achieved dynamic and responsive ambient lighting that adapted to changing environmental conditions.

WORK EXPERIENCE

Research Assistant

APRIL 2024 - CURRENT

UNIVERSITY RESEARCHER, BOSTON, MA

- Developed a website using Django to facilitate data collection, optimizing the user interface for better engagement and data integrity.
- Utilized Amazon Mechanical Turk to efficiently gather and annotate user data on facial expressions, ensuring a diverse and representative dataset for model training.
- Employed advanced neural network architectures, including convolutional neural networks (CNNs) and long short-term memory networks (LSTMs) combined with attention mechanisms.
- Automated the extraction of facial action units and analyzed temporal patterns to contribute to systems understanding human emotions and behaviors.

Orientation Leader

MAY 2022 - AUGUST 2022

UNIVERSITY STUDENT LEADER, BOSTON, MA

- Coordinated and executed large-scale orientation events** for over 300 students, including campus tours, welcome activities, and informational sessions, to ensure a comprehensive introduction to campus life.
- Provided personalized mentorship** to over 250 new students, offering tailored advice on academic planning, time management strategies, and opportunities for campus involvement to facilitate a successful start.
- Enhanced student engagement and integration** through dynamic workshops, team-building exercises, and interactive sessions, actively encouraging participation and fostering a sense of community.