Amol Joseph Mendonca

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EDUCATION

University of Michigan, Ann Arbor May 2026
B.S. Computer Science
Front-end: SwiftUI, JavaScript, React, HTML, CSS, Figma, Illustrator
Back-end: Swift, C, C++, Java, Python, R, MySQL, MongoDB, Vapor, Firebase

EXPERIENCE

Desai Accelerator | Incoming Summer 2024 UX Intern
- Desai Accelerator is University of Michigan's premier startup accelerator that works with early-stage tech startups driving toward their first $1 million.

COVID Warzone | Co-Founder
- Chaired the Partnership Division, and secured a deal with a teleconsultation firm (eka.care) in order to provide free online consultation to any patient in India through our website.
- Secured partnerships with multiple organizations that provide free home-cooked meals to COVID-positive patients in our city via our website. Incharge of Social Media and spreading COVID-19 awareness.
- Successfully scaled operations to support over **20,000+ users**, garnering media attention and interviews from prestigious outlets such as Times of India, Deccan Herald, and India Today. Mentored a team of 5 individuals.

International Student Council | University of Michigan International Center
- Functioned as a liaison between 12,000+ U-M international students and the International Center, enhancing communication, support and initiatives for student welfare and international collaboration.
- Distinguished as one of eight students, and the sole international student, to engage in strategic dialogues with the Michigan Governor's Office and U-M President Santa Ono for the Growing Michigan Together Council.
- Involved in consulting with the University's administration on enhancing Diversity, Equity, and Inclusion (DEI) 2.0 initiatives, providing insights from an international student perspective.

PROJECTS

DishDash (iOS) | Sustainable marketplace for food at Carnegie Mellon University's Hackathon
- Utilized SwiftUI for front-end, Vapor for backend services, and PostgreSQL for data management. Integrated Google OAuth for secure and convenient user authentication.
- Engineered a comprehensive database schema with a central UserProfile model to manage user data, leveraging Vapor's Fluent ORM for efficient database operations

ProSortNLP | Naïve-Bayes Classifier utilizing NLP to categorize posts on Piazza.com
- Engineered a Bayesian text classifier to parse and categorize posts, achieving 93% accuracy on diverse data sets by implementing a custom Binary Search Tree (BST) based map.
- Applied log-probability scores in a unigram model for precise label prediction of new posts, incorporating sophisticated techniques to address unseen words and ensure consistent prediction accuracy.
- Utilized recursion, binary trees, and maps in development, showcasing versatile coding and algorithm proficiency.

SeamCraft | Content-aware resizing algorithm
- Designed an advanced image resizer using seam-carving, integrating ADTs and data structures for enhanced content-aware adjustments. Through precise energy and cost matrix analysis, ensured optimal seam elimination.
- Employed rigorous testing and debugging techniques to ensure high-fidelity output while innovating a height adjustment method based on rotational transformations.

ADDITIONAL

- **Languages**: English, Kannada, Hindi
- **Honors**: 1st Place & Most Valuable Player award (Indian Cyber Gaming Championship); Top 100 player in the world in Paladins - ranked a Grandmaster; Academic Distinction Award.
- **Hackathons**: SmartCart iOS @ SpartaHacks (MSU), DishDash iOS @ TartanHacks (Carnegie Mellon)