

RUDRA GOPAL

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EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST, College of Information and Computer Sciences	Amherst, MA
Bachelor of Science in Computer Science	Exp Graduation: May 2024
Relevant Coursework: Data Structures, Calculus III, Linear Algebra, Computer System Principles, Reasoning Under Uncertainty, Programming Methodology, Introduction to Computation	GPA: 3.96
Commonwealth Honors College student with multi-disciplinary honors	
Recipient of Chancellor’s Award (Scholarship)	
Dean’s List (Fall 2020) (Spring 2021)	

SKILLS & LANGUAGES

Programming Languages: Python (Proficient), C (Proficient), Java (Proficient), JavaScript (Familiar)
Technologies: Web designing, OpenCV, Arduino, Alexa Skills Kit (ASK), SQL, GNU/Linux, NumPy, PyTorch
Tools & Frameworks: Eclipse, Visual Studio, PyCharm, AWS Lambda, LaTeX
Languages: English (fluent), Gujarati (fluent), Hindi (conversational)

EXPERIENCES

BUILD UMASS	Amherst, Massachusetts
Business Developer	Oct 2021 - Present
<ul style="list-style-type: none">Managing and translating the gap between the BUILD UMASS tech team and a task managing platform client iGoalSpearheading meetings with the client to bring in their perspectives regarding the ongoing development of the mobile applicationPlanning the development cycle while actively modelling the design that suits the needs of the client	

COLLEGE OF INFORMATION AND COMPUTER SCIENCES	Amherst, Massachusetts
Undergraduate Research Volunteer	Jun - Jul 2021
<ul style="list-style-type: none">Developed a PyTorch model that uses a neural network to learn a fair allocation of items to agents based on their preferencesDemonstrated high Utilitarian Social Welfare for synthetic problem instances (Gaussian and Uniform) based on over 200 experimentsCo-authored a LaTeX report, along with two team members and a Ph.D. mentor	

SOFTVAN PVT LTD	Ahmedabad, India
Computer Vision Intern	Oct – Dec 2019
<ul style="list-style-type: none">Developed ‘Automatic Attendance’ facial detection and facial recognition models using OpenCV for clients at a local startup and participated in code reviewTracked and reported work progress at daily and weekly internal project meetingsMitigated manual attendance time to 60%, decreasing the response time	

CHHOTUBHAI R. PATEL MEMORIAL EDUCATION TRUST	Gujarat, India
Volunteer	May 2017 & May 2018
<ul style="list-style-type: none">Served as a volunteer at the Trust, where I taught mathematics to students based in under-represented communitiesOrganized informational social awareness workshops to emphasize the importance of education in rural areas	

PROJECTS

UMass Robotics Club	Oct 2021 - Present
<ul style="list-style-type: none">Developing a robotic prototype for NASA Robotic Mining Competition: Lunabotics while representing the universityEngineering a path-planning algorithm to enable the robot to automatically find a path towards destination stations while avoiding obstaclesTechnologies used: Robot Operating System (ROS), Python	

HackUMass IX	Nov 2021
<ul style="list-style-type: none">Awarded Best Beginner Software Hack for developing an intra-university student-to-student food delivery application to solve the issue for students in need of a quick meal in between their busy schedulesDesigned software roadmap, planned development cycle, organized robotics workshop, presented our product to judgesTechnologies used: Android Studio, Flutter, Dart, Firebase	

Independent Arduino Modules	Sep 2019 – Jul 2021
<ul style="list-style-type: none">Built an array of Arduino models using Accelerometer, Bluetooth, Relay, Smoke detector, Joystick, and Touch sensor modulesProgrammed in Arduino IDE to develop multi-modular robotic devices with an 87% precision rateTechnologies used: Arduino, Arduino IDE	

Amazon Alexa Game Skills	Apr 2020 - Jun 2020
<ul style="list-style-type: none">Collaborated with peers to build Amazon Alexa game skillsDeveloped interactive quiz game skills based on the cricket industry in Hindi and English versionsTechnologies used: Alexa Skills Kits, AWS Lambda	

AWARDS

AP Scholar with Honor Award	2020
Scored in the top 4% of India’s national Joint Entrance Examinations, out of one million exam takers	2019