

Dharmik Patel

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Education

Rutgers University • New Brunswick, NJ

Expected: Spring 2025

Bachelor of Science in Computer Science, Cumulative GPA: **4.00/4.00**

Relevant Coursework:

Intro to Artificial Intelligence, Analysis of Algorithms, Data Structures, Operating Systems, Systems Programming, Software Methodology, Computer Architecture, Discrete Structures 1&2, Virtual Reality & 3D Development, Mobile App Development

Professional Experience

Akshardham Operations • Stone Measurements Lead • Robbinsville, NJ

June 2022 - September 2023

- Formulated an innovative approach to make a 3D representation of the main concrete pour industry-standard surveying technology. Used the 3D model to obtain precise measurements required for marble cutting, resulting in cost savings and a noteworthy time-saving of 2 months in the ongoing stone placing process started by 5 teams of ~20 members.
- Collaborated seamlessly alongside 75+ people on the direct team, along with 850+ on other groups with varying ages, skill sets, and professional backgrounds, to construct the world's largest Hindu Temple outside of India.
- Developed a 5-step holistic approach to calculate the amount of stone needed to be cut for 3,000+ marble stones coming weekly.

Rutgers' Office of Information Technology • IT Consultant • New Brunswick, NJ

September 2021 - Present

- Diagnose, report, and escalate software and network issues on 178 computers and 10 printers across 3 labs on 1 campus.
 - Provide technical support to students and professors hosting classes/tests in the computer labs to ensure proper permissions and roles for Microsoft Suite and the Rutgers Administration Domain. Took accurate hourly statistics for monthly report presentations.
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Leadership Experience

BAPS Charities • Regional Project Manager • Northeast, US

September 2016 - Present

- Lead and train technology division in audio-visual components for all BAPS hosted events with an average attendance of 4000+
 - Spearheaded redevelopment of the internal tracking system in use by 30 coworkers across 40+ centers allowing them to identify focus families which increased local weekly attendance on average by 20% across all local centers.
 - Led a team of 8 analysts to manage a \$10,000 yearly budget coming from donations/sponsorships and created a system to keep track of supplies and resources reducing the need to buy new supplies from every 2 months to every 6 months.
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Projects

AI Learns to Play Pac-Man • 3D Machine Learning

- Leveraged ML Agents, a machine learning library, to create a neural network to win a 3D version of Pac-Man 100% of the time.
- Implemented reinforcement learning and curriculum learning, and visualized training performance using TensorBoard.
- Tools: **C#, Python, TensorBoard, ML Agents, Reinforcement Learning, Curriculum Learning, Unity3D**

Landmark Detection • Android

- Mobile app where a person identify landmarks from a picture along with sorting and storing previous results.
- Tools: **Java, Google Firebase, Multiple Activities, Unit Testing, Object Oriented Programming, Android Studio**

Better Pay • Full Stack

- Online system to facilitating flexible lending among friends with customizable repayment options and user-friendly interface.
- Tools: **React, Python, HTML, CSS**

Mysh • Systems Programming

- My implementation of the linux shell, to execute all commands, built-ins, input and output redirections, pipes, and wildcards.
- Tools: **C, gdb, Unix, Posix, Multiprocessing, Input Parsing, Unit Testing**

Attendance Bot • Script

- Automated attendance data transfer from Google Sheets to BAPS Charities' system, cutting weekly analysis time by ~2 hours.
 - Led to an average of 90% increase of weekly data collection across 40+ youth centers in the Northeast, US
 - Tools: **JavaScript, HTML, Google Sheets API**
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Skills & Interests

Power Skills: Cognitively Creative, Detail Oriented, Critical Thinking, Client Service, Team Oriented, Organization, Optimization

Languages: Java, C#, Python, C, JavaScript, Dart, R, HTML, CSS, Kotlin

Libraries & Tools: Linux Command Line, Git, Java FX, React, ML Agents, Pandas, Google App Scripts, Google Cloud Vision, Gdb

Interests: Volleyball, Photography, Cultural Dancing, Video Editing, Volunteering, Yoga, Puzzles, Music, Cooking, Chess, Basketball