

Chaitanya Patel

917.361.7430 | thechikkipatel@gmail.com | Raleigh, North Carolina | linkedin.com/in/cpatel3

EDUCATION

North Carolina State University, **Master of Computer Science** | August 2021 - December 2022 | GPA: 3.95

Coursework: Artificial Intelligence, Graph Data Mining, Software Engineering, High Performance Machine Learning, Automated Learning and Data Analysis, Database Management Systems

SKILLS

Programming Languages	Python, Java, C, C++, Ruby, JavaScript
Database	MySQL 5, SQLite
Data Science/ML	Pytorch, Fastai, Sklearn, NetworkX, Numpy, Pandas
Big Data	Apache Spark
Frameworks	Django (and DRF)
Tools	Anaconda, Jupyter, Eclipse, Postman, Git, Unity, PyCharm, Microsoft Office
Publications	The Journal of Physical Chemistry A, Experimental and Computational Studies on Elimination Reactions in Gases
Soft Skills	Presenting/Public Speaking, Time Management, Communication, Troubleshooting, Project-Planning
Certifications/CE	AWS Solutions Architect (in progress), Data Engineering Bootcamp (in progress)

PROJECTS

EcoNET - True Error Detection

Oversaw analysis of North Carolina Weather Station Data (ECONet), apply classification techniques to determine which data points are erroneous, using multiple machine learning techniques. Leadership role in a small team.

Discord Classroom Bot

Discord bot designed in python that is intended to help with common classroom activities for CS related classes using various APIs. Leadership role in a small team, tasked with using revision control systems and GitHub Actions.

Database Management System

Design a Multilevel Database Management system for a Publishing house. Everything from Database Design to deployment is taken into consideration. Done in a Team setting.

Real-time AI Video Upscaling

Design a Real-time Video upscaling software using state-of-the-art techniques to create efficient AI systems. Adapting various Optimization strategies and software packages to strategically cut down existing AI models for fast processing.

TECHNICAL EXPERIENCE

Immunology Lab Tech | Genova Diagnostics

May 2019 – August 2021

- Facilitated work with Human Specimens for Immunoassays using both manual and automated processes. Assisted in the maintenance of the IT infrastructure and troubleshooting software. Developed a streamlined approach to minimize errors and breakdown of machines and increase the throughput of systems by roughly 10%.

Physical Chemistry Researcher | University of North Carolina Asheville

May 2016 – May 2018

- Research involving the creation, analysis, and degradation of Halogen gases. The equipment used involved vacuum racks, Gas Chromatography-Mass Spectrometry detector. Collaborated on the development of new techniques for trapping and detecting molecules. Worked with various software packages designed for the analysis and detection of molecules.
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EXTRA CURRICULAR ACTIVITIES / VOLUNTEERING

Youth Group Leader, BAPS (Non-Governmental International Hindu Organization), Robbinsville, NJ May 2009 – Present

- Organizing and collaborating nationally to plan events on the local and national level