

# Raghav Patel

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## EDUCATION

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Jan 2022 - May 2024	<b>The University of Texas at San Antonio (UTSA)</b> M.S. Computer Science	(GPA: 3.96/4.0)
Sep 2016 - May 2020	<b>New Jersey Institute of Technology (NJIT)</b> B.S. Computer Science and Math	(GPA: 3.86/4.0)

## WORK EXPERIENCE

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<b>Neuromorphic Artificial Intelligence Lab, UTSA</b> <i>Research Assistant</i>	June 2023 - May 2024 San Antonio, TX
<ul style="list-style-type: none"><li>– Reduce continual learning spiking neural network training time by 50% by using 75ms time duration and hyperparameter tuning with a genetic algorithm. Maintains comparable accuracy in half the time.</li><li>– Develop dashboard to visualize and interpret temporal nature of 3 different spiking neurons.</li><li>– Presented neuroscience based machine learning insights through 2 poster presentations in neuromorphic computing conference (NICE) and AI Winter School @ UTSA</li></ul>	
<b>Sleep and Memory Computational Lab, UTSA</b> <i>Research Assistant</i>	Oct 2020 - May 2023 San Antonio, TX
<ul style="list-style-type: none"><li>– Reduce spiking neuron training time from 10hrs to 1-5 mins by storing necessary calculations in memory instead of calculating in online manner per training sample</li><li>– Develop and debug 4 behavioral neuroscience experiments for sleep studies using PsychoPy framework.</li><li>– Automate sleep scoring using Python YASA (sleep medicine research library). Provides actionable insights within seconds instead of waiting days for human sleep scorer feedback.</li></ul>	
<b>Nomura Securities</b> <i>Technology Analyst Intern</i>	June 2019 - Aug 2019 New York, NY
<ul style="list-style-type: none"><li>– Develop RESTful API in Java to persist risk related performance data for clients. Allows to track data for future analysis.</li><li>– Write Python CLI to fetch Development Operations data to analyze technology usage throughout various teams.</li></ul>	
<b>Deutsche Bank</b> <i>Technology Analyst Intern</i>	June 2018 - Aug 2018 New York, NY
<ul style="list-style-type: none"><li>– Migrate 2 SQL server applications to Informatica data masking to make regulatory compliant.</li><li>– Develop word cloud visualization for stock prediction sentiment analysis project in Python.</li></ul>	

## SKILLS

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Programming	Python, MATLAB, Java, MySQL, JavaScript
Libraries	PyTorch, Pandas, Numpy, Matplotlib
Technologies	Git, Jenkins, AWS, RESTful API
Interests	Brain-Inspired Machine Learning and Artificial Intelligence, Spiking Neural Networks and Continual/Lifelong Learning, Plasticity Mechanisms, Computational Neuroscience