

rishiksarkar02@gmail.com

**Rishik Sarkar**

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## Education

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New Jersey, USA	Rutgers University-New Brunswick	Sept 2020 – (June 2024)
<ul style="list-style-type: none"><li>• Majors in Computer Science (BS), Cognitive Science (BS)</li><li>• SAS Honors Program, SAS Dean's List (2020, 2021, 2022)</li></ul>		GPA: 3.84

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## Work Experience

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Summer Research Intern	Abraira Lab	May 2022 – June 2022
<ul style="list-style-type: none"><li>• Analyzed and annotated videos of rodents with spinal cord injuries in a Computational Neuroethology observation study, to generate high quality training data for an unsupervised machine learning model used to predict behavioral tendencies and fluctuations using <b>MoSeq</b> and tools from <b>graph theory</b>.</li></ul>		
Waiter	Sumi Ramen	May 2021 – August 2022
<ul style="list-style-type: none"><li>• Efficiently multitasked while maintaining an organized work environment.</li><li>• Managed up to 20 tables during a shift, along with ensuring the punctual packaging and delivery of online orders.</li></ul>		
Retail Sales Associate	The Home Depot	Feb 2021 – July 2021
<ul style="list-style-type: none"><li>• Served as a retail sales associate in the Gardening department, and fulfilled customer service and organizational duties including customer support, POS, and inventory management.</li></ul>		

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## Projects

### Guitar Chord Detection Model

<https://github.com/RishikSarkar/GuitarChordsTFOD>

- Trained a **TensorFlow** Object Detection model to recognize and classify guitar chords from hand shapes in real-time.
- Used **TensorFlow.js** to deploy and integrate a functional demo application to my personal website.

### Chess

<https://github.com/RishikSarkar/Chess>

- Implemented a terminal-based Chess game using **Java**, with extensive **Javadoc** documentation.

### Personal Portfolio Website

<https://www.rishiksarkar.com/>

- Created a static personal portfolio website from scratch using **Next.js** and **Tailwind CSS**.

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## Technical Skills

- **Languages:** Python, Java, C++, C, JavaScript/HTML/CSS, XML, SQL, LaTeX, x86 Assembly
- **Tools:** Git, Linux, JavaFX, Pandas, NumPy, Matplotlib, SciPy, scikit-learn
- **Frameworks and Libraries:** TensorFlow, PyTorch, Flask, Next.js, Tailwind CSS