NALINI SINGH

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EDUCATION

Northeastern University, Boston, MA   *Aug. 2023 - May 2027*
Candidate of Bachelor of Science in Computer Science and Cognitive Psychology   Cumulative GPA: 3.77
Relevant Courses: Object Oriented Design, Discrete Structures, Fundamentals of Computer Science, Statistics in Psychological Research, Cognition, Psychology of Language
Activities: NU Women In Tech (NUWIT), NU AI Club, AI Perception Lab

TECHNICAL KNOWLEDGE

Languages: Racket, Java, Python | **Tools:** Git, Intellij, Eclipse, Jupyter, SPSS, Excel

PROJECTS

SafeScan: Scan Smart, Live Smarter   *Nov. 2024 - Nov. 2024*
- An AI-based website that analyzes uploaded images of product labels to detect allergens and health risks, and provide clear safety assessments to help consumers make safer choices.
- Built as a Streamlit WebApp, SafeScan operates on an AI agent developed with OpenAI and LangGraph for autonomous data gathering. It uses Google Vision for image recognition and is hosted on AWS with robust scaling via Docker and Terraform, all accessible through a Cloudflare enhanced domain.

IntelliPac: The Pac-Man Playing Neural Network   *Oct. 2024 - ongoing*
- Trained a neural network trained with NEAT to play Pac-Man, enhancing gameplay by over 200% through reinforcement learning and adapting path-finding algorithms.

EXPERIENCE

Harvard WECode: Women Engineers Code Conference, Boston   *Dec. 2024 - ongoing*
Position: Technology Fellow
- Take on a leadership role in publicizing and organizing the WECode Conference, the largest student-run conference for women engineers in the nation with over 900 attendees annually.
- Promote the conference on 10+ platforms using social media, digital communities, and networks.
- Engage in local outreach activities to enhance conference visibility and participation.

Language and Mind Lab, Northeastern, Boston   *Sep. 2024 - ongoing*
Position: Research Assistant
- Collaborate with a multidisciplinary team of 10 researchers to apply cognitive science tools to engage in data-driven analysis and synthesize literature to support ongoing research initiative
- Synthesize findings from over 15 research articles to build a comprehensive understanding of psychological dualism.
- Managed and coordinated the participation of over 80 individuals overseeing their orientation, instruction, and active engagement in the research process.

Saudi German Hospital, Dubai, UAE   *July 2022 - Aug. 2022*
Position: Biomedical Engineering Intern
- Managed over 200 technological assets using advanced inventory management systems; participated in 5 vendor consultations to enhance equipment procurement and maintenance strategies.
- Assisted in the routine maintenance and troubleshooting of 15+ types of diagnostic equipment and acquired in-depth technical knowledge of medical devices.
- Delivered comprehensive technical presentations to senior leadership, summarizing 1 month's worth of key findings and offering strategic recommendations for the management and enhancement of medical technology operations.

Bioscan Research, Ahmedabad, India   *Dec. 2021 - Dec. 2021*
Position: Biomedical Engineering Intern
- Developed a comprehensive technical understanding of 'Cerebo,' completing over 40 hours of specialized training in product functionality and the patenting process.
- Conducted a detailed 2-week study on Traumatic Brain Injury, and delivered an in-depth presentation to over 15 staff members, outlining critical product applications and recent research findings related to Traumatic Brain Injury.
- Participated in UBER's mobility bootcamp at the Government of India's incubation center, iCreate, engaging with 10+ cutting-edge mobility solutions and expanding professional network by connecting with 20 industry experts.