NEYMIKA JAIN

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EDUCATION

California Institute of Technology *2017 - 2019, 2021 - Present*

The Harker School *September 2014 - May 2017*
DECA, FRC, TEAMS, and State Science Fair Award Winner Overall GPA: 4.3
National Toxicology Conference Presenter and ASIO Best Abstract Award Winner

TECHNICAL STRENGTHS

Computer Languages Python, C#, Java, C++, MATLAB, R, Octave, TensorFlow, PyTorch
Software & Tools LaTeX, Excel, Mathematica, Github, Visual Studios

EXPERIENCE

NaoMedical July 2021 - September 2021
Product Development Intern

· Developed internal survey/rating system to improve performance management and maintain consistent levels of service throughout 10+ emergency medical centers

Microsoft July 2019 - September 2019, July 2020 - September 2020
Software Engineering Intern

· As part of Azure Data R&D Analytics PM team, developed a new cognitive skillset which identifies key phrases using the Knowledge Store feature and reshapes the enriched documents according to user inputted shaping.
· As part of the Cognitive Search team in Applied AI, implemented several fuzzy distance measures (Hamming, Hamming + Jaro, and Damerau-Levenshtein) as an open source Power (Custom Web API based) Skill on Github.

Goldman Sachs June 2018 - August 2018
Virtual Insight Series

· Selected from over 2,000 candidates for a three-month program
· Learned about stock market forecasting and maintenance through weekly online conferences and assignments

Microsoft June 2018 - September 2018
Explorer Intern

· Improved conversational ability by 20% for the Financial Support assistant using language understanding services (LUIS) and developing an Entity recommendation algorithm for previous queries

Stanford June 2015 - March 2017
Research Intern

· Under Dr. Daniel Rubin, created a semi-automated scorer with high accuracy for HER2 immunohistochemistry images using LASSO and SVM regression analysis
· Under Dr. Supekar, used national longitudinal data to determine the role of APOE- $\varepsilon 4$ on cognitive impairment using Support Vector Machine (SVM), Random Forest, and Naive Bayes classification analysis

FIRST Robotics August 2013 - May 2017
Executive Managing Director, VP of Software

· Planned 12 events at 4 separate venues for 500+ FIRST members. Handled PR, essays, and the lab. Promoted to the highest position - reported directly to Board of Directors
· Used HSL-based blob-finding algorithms for object identification in images. Used convex hull and Jarvis march algorithms to refine object boundaries and selection for autonomous robot vision

RELEVANT COLLEGE INFORMATION

Higher Level Courses: Machine Learning Systems (CS156ab, CS 155), Applied Linear Algebra (ACM 104), Discrete Mathematics (Ma 6abc), Complex Analysis of Physical Systems (ACM 95ab), Investments (BEM 104), Methods of Applied Mathematics (ACM 101a)