

NEYMIKA JAIN

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EDUCATION

California Institute of Technology

Applied + Computational Mathematics (ACM)
Business, Economics, and Management (BEM)

September 2017 - Present

Overall GPA: 3.4

The Harker School

DECA, FRC, TEAMS, and State Science Fair Award Winner
National Toxicology Conference Presenter and ASIO Best Abstract Award Winner

September 2014 - May 2017

Overall GPA: 4.3

TECHNICAL STRENGTHS

Computer Languages

Python, C#, Java, C++, MATLAB, R, Octave

Software & Tools

LaTeX, Excel, Mathematica, Github, Visual Studios

EXPERIENCE

Microsoft

Software Engineering Intern

July 2019 - September 2019

- 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.
- Began integrating the skill in current production codebase as a Text Analytics Skill while the open source version was used by pre-existing customers.

Goldman Sachs

Virtual Insight Series

June 2018 - August 2018

- 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

Explorer Intern

June 2018 - September 2018

- 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

Research Intern

June 2015 - March 2017

- 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- $\epsilon 4$ on cognitive impairment using Support Vector Machine (SVM), Random Forest, and Naive Bayes classification analysis

FIRST Robotics

Executive Managing Director, VP of Software

August 2013 - May 2017

- 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

Sophomore Year Courses: Machine Learning Systems, Applied Linear Algebra, Differential Equations, Discrete Mathematics, Complex Analysis of Physical Systems, Introduction to Political Science

Core Courses: Introductory Computer Science, Introductory Programming Methods, Single and Multivariable Calculus & Linear Algebra, Introductory Physics & Chemistry, Introductory MATLAB & Mathematica

College Organizations: HackTech Organizer, Teaching Assistant for Introduction to Computer Science, Board of Control Representative, Society of Women Engineers (SWE)