adeeb**sheikh**
data analyst, software engineer

contact

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languages

English
Written French

programming

Java
Python
C/C++
R
HTML/CSS
JavaScript
LaTeX

interests

data analytics, artificial intelligence, natural language processing, cluster analysis, unsupervised learning, neural nets

education

since 2014   **B.S.**   University of Rochester
Majoring in Data Science
Cumulative GPA: 3.77 / 4.00
Completed Coursework: "Topics in Data Science," "Analysis of Algorithms," "Introduction to Artificial Intelligence," "Data Mining"

since 2014   **Honors B.A.**   University of Rochester
Majoring in Mathematics
Cumulative GPA: 3.77 / 4.00
Completed Coursework: "Introduction to Cryptography," "Number Theory," "Honors Real Analysis"

2010–2014   **Honors Graduate**   Pittsford Sutherland High School
Received "Advanced Regents Diploma with Distinction"
Cumulative GPA: 3.85 / 4.00

experience

since 2016   **Wegmans Food Markets, Inc.**   Data Analyst Co-op
> Apply predictive techniques to extrapolate customer value and churn rate.
> Experiment with such techniques through use of Netezza SQL, R, and Java.

since 2015   **University of Rochester IT Center**   Computer Assistant
> Provide customer assistance to students and faculty for a wide array of computer and connectivity issues.

fall 2016   **University of Rochester CS Department**   Teaching Assistant
> Led problem sessions for students in "Design and Analysis of Efficient Algorithms" class.
> Graded homework for "Design and Analysis of Efficient Algorithms" class.

summer 2016   **University of Rochester Math Department**   REU Fellow
> Investigated the theory, properties, and applications of pseudo-random graphs.

fall 2015   **Transition Opportunities at the University of Rochester**   Academic Coach
> Tutored students with learning and cognitive disabilities.
> Taught work/study habits appropriate to a college level.

summer 2015   **University of Rochester Math Department**   REU Fellow
> Investigated similarity between spectral sets and tiling sets in finite space.
> Developed and programmed algorithms for exhaustive searches over such sets.

summer 2013   **Laboratory for Laser Energetics**   Project Assistant
> Conducted laser optics research about discrete phase plates (DPPs).
> Developed rigorous MATLAB simulations to model DPPs.
> Presented and defended research before a body of scientists.
> Wrote a comprehensive research report for the LLE database.

projects

2017	**AdeebSheikh.com**	Personal Website

> My personal website.
> Written in HTML/CSS.

2016	**Social Circle Induction**	Data Mining

> Implemented latent clustering methods for hard mixed-membership cluster-ing.
> Implemented data structures to characterize social networks and pairwise similarity vectors.
> Written in Java.

2016	**Nil Statistical Parsing**	Artificial Intelligence

> Tags part-of-speech for words unsupervised, using class-based n-grams clustering.
> Develops stochastic grammars to parse arbitrary sentences.
> Written in Java and SQLite3.

2016	**Titanic Classifier**	Data Mining

> Developed a classifier on Titanic data that predicts who lives and dies based on several fields.
> Written in R.

2016	**Godel**	Artificial Intelligence

> Simplifies and evaluates logical statements based on inputted axioms.
> Written in Java.

2016	**XOHugsKisses**	Artificial Intelligence

> Uses MiniMax with alpha-beta pruning in order to play 9-board Tic-Tac-Toe.
> Written in Java.

2016	**matchaNEAT**	Artificial Intelligence

> Implemented "NeuroEvolution of Augmenting Topologies (NEAT)."
> Can breed optimal feed-forward neural networks according to custom fit-ness functions.
> Written in Java.

2015	**iGGdrasil**	Mock-up Social Network Website

> Social networking adapted for context-free grammar enthusiasts.
> Can create grammars and generate parse-trees dynamically using AJAX and Clojure.
> Written in HTML/CSS, JavaScript, Python, SQLite3.

2015	**Arithmetic Scanner/Parser**	Grammar Design

> Developed tokenizer to scan arithmetic sentences.
> Developed custom context-free grammar to parse arithmetic sentences.
> Written in C.

2014	**Tetris**	Game

> Plays classic Tetris, complete with music and visual aesthetic.
> Written in Java.

honors & awards

| 2014–2016 | **Dean's List** | University of Rochester |

For attaining a semester GPA of at least 3.4.

| 2014–2016 | **Rush Rhees Scholar** | University of Rochester |

For stellar academic achievement and strong vision across multiple interests.

| 2014 | **National Merit Scholarship Finalist** | National Merit Scholarship Corporation |

For performing in the 99th percentile on the PSAT and SAT and overall academic excellence.

| 2013 | **Honorable Mention** | Moody's Mega Math Challenge |

For outstanding performance and use of applied mathematics in the 2013 Moody's Mega Math Challenge.

| 2012 | **Chemistry Achievement Award** | American Chemical Society |

For very good performance in a high school chemistry class.

| 2010 | **First Prize** | Alice B. Wilson Literary Awards Contest |

Awarded in the Short Fiction section of the Alice B. Wilson Literary Awards Contest.