

Rafael Barash

Personal Info

Date of Birth:	25/10/1997
Personal Website:	https://rafiabarash.com
GitHub:	https://github.com/rafiabarash
Address:	6531 N Crestwood Dr, Glendale 53209, USA
Phone Number:	414.704.7744
Email Address:	baras015@umn.edu

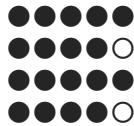
Education

University of Minnesota Twin-Cities Minneapolis USA	B.S. in Computer Science GPA: 3.49/4.0 Relevant Coursework: Algorithms & Data Structures II. Advanced Programming Principles. Machine Architecture. Applied Linear Algebra. Multivariable Calculus. Discrete Structures.	09/2016 - present
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Technical Skills

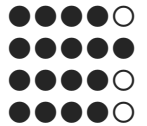
Languages

Python
Java
JavaScript
HTML & CSS



Frameworks and Libraries

TensorFlow
ReactJS
Django
Bootstrap



Work Experience

Optum - UnitedHealth Group Minneapolis USA	Software Engineering Intern <ul style="list-style-type: none">Automated business-developer communication by building an in-browser editor which takes business requirements and ships a formatted version to the developers' GitHub.Reduced call-center confusion by building internal web app that guides employees through questions to ask and dynamically updates questions based on customer responses.Followed modern Agile and ATDD practices using Rally Dev, Jenkins, and Cucumber.	06/2018 – 08/2018
Humphrey School of Public Affairs Minneapolis USA	Full Stack Development <ul style="list-style-type: none">Improved collaboration between a network of international researchers by building a website hosting descriptions and contact information for open-access urban datasets and models.Reduced time spent searching for relevant datasets by integrating data-querying and full-text search features.Automated dataset submission and maintenance by connecting a submission form directly to the database and building an admin portal for maintainers.	04/2017 - present

Projects

Machine Learning March Madness - Personal Project	<ul style="list-style-type: none">Improved from 0.55% log loss and 72% prediction accuracy to 0.45% and 74%, respectively.Utilized neural network model with multiple features from regular season data to improve on seed difference linear regression.Trained models with regular season and tournament data from 2003-2017.	03/2018
Planet Wars Strategy - School Project	<ul style="list-style-type: none">Ranked 16th in class of over 125 engineers with Java strategy to take over the solar system.Built strategy over legacy code to visualize bot in simulation.Increased code efficiency by implementing multiple data structures including a HashMap and PriorityQueue.	12/2017