Neil Johari

neil@johari.tech
(516) 532-8612
https://johari.tech/

education

University of Michigan   2018 - 2021
B.S.E in Computer Science [Sophomore]
GPA: 3.7 / 4.0
Current Coursework: Data Structures & Algorithms, Intro to Computer Organization, Intro to Electronic Circuits
Completed Coursework: Programming & Data Structures, Discrete Math, CS Pragmatics, Differential Equations, Intro to Stats

Syosset High School   2014 - 2018
Highest Honors, Mastery in Science
GPA: 8.636 / 8.0

languages

C++, Java, Ruby, Python, MATLAB

proficient tools

git, vim, tmux

awards

Dean's Honor List   2019
For maintaining above a 3.5 GPA with a minimum of 12 graded credits per semester

Nassau County Legislature Citation   2019
For leadership and community engagement

Bernie Goudreau Memorial Award   2018
For achievement in math and CS

**1st Place at Andromeda
2nd Place at WAC**   2017
For the creation of a machine learning model to analyze MRI scans of Alzheimer's disease patients using convolutional neural networks

Gold Medal at Al Khalfus Math Fair   2015
For the creation of a model of video game hours played due to social influence with an analysis through machine learning

experience

University of Michigan   2019 – now
Researcher
- Produced high quality videos and lab manuals for ENGR 100-950 (Electronics for Atmospheric and Space Measurements)
Instructional Aide for ENGR 100-950
- Pioneered labs on Serial Peripheral Interface and RFID
- Revamp lab activities by identifying student struggles in lecture and lab to improve clarity and maximize learning

Triangle Engineering Fraternity   2019 - now
Website Master Chairholder
- Elected to design the fraternity's new website using Ruby on Rails (RoR) and PostgreSQL, deployed via Heroku
- Architected layout to direct traffic towards recruitment pages

Syosset High School   2014 - 2018
Website Developer
- Selected by Dr. Durante to lead design and implementation of the new Syosset website utilizing RoR, MongoDB, and Redis
- Responsible for 280+ commits with 24,000+ changes
- Designed a sleek and ADA-compliant accessible interface
Researcher
- Developed a machine learning (ML) model to analyze MRI scans of Alzheimer's disease patients
- Used ML to model social influence in time spent on videogames

MBuRST   2019 – now
Project Lead
- Designed a weather balloon payload to conduct experiments and determine the most cost-effective GPS module at the request of Professor Aaron Ridley

open source personal projects

Spacecat   2019 - now
- Designed software to read and serialize sensor data using Google's Protobuf for a high-altitude weather balloon

Scram   2016 - now
- Programmed a transparent Ruby permissions system gem

Mongoid Forums   2014 - 2015
- Developed a RoR gem for forums with MongoDB integration

AutoBroadcaster+   2012 - 2014
- Published a Minecraft server-wide scheduled broadcasting plugin
- Downloaded 227k+ times