

neiljohari



software engineer

contact

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<https://johari.tech/>

current courses

Discrete Math
Prog&Data Structures

previous courses

CS Pragmatics
Differential Eqns.
Engineering 100
Engineering 101
Statistics 250

languages

Ruby
Java
C++
MATLAB
Python
ArduinoC

favorite tools

git
vim
tmux

education

2018 - 2022 **B.S.E. in Computer Science**
University of Michigan College of Engineering
2014 - 2018 **Diploma with highest honors and Mastery in Science**
Syosset High School

Ann Arbor, MI
GPA: 3.825/4.0
Syosset, NY
GPA: 8.636/8.0

experience

2019 - now **Research Assistant for Engineering 100** <http://yt.vu/+handsonengineering>
– Designing labs and producing high quality engineering tutorial videos
2019 - now **Website Developer at Niyama Jewelry** <https://neiljohari.page.link/niyama>
– Designing and programming an e-commerce platform utilizing Ruby on Rails and PostgreSQL
2019 - now **Website Developer at Triangle Fraternity** <http://triangleumich.org>
– Redesigning website utilizing Ruby on Rails and PostgreSQL
2014 - 2019 **Website Developer at Syosset High School** <https://github.com/Syosset/syosset>
– Selected to lead design and implementation of the new Syosset Senior High School's website utilizing Ruby on Rails, MongoDB, and Redis
– Responsible for 280+ commits with 24,000+ changes
2014 - 2018 **Researcher** <https://neiljohari.page.link/ml>
– Successfully developed a machine learning model to analyze MRI scans of Alzheimer's disease patients (2016-2018)
– Created a model of video game hours played due to social influence with an analysis through machine learning (2015-2016)
– Conducted literary research on sleep deprivation (2014-2015)

open source side projects

2019 - now **Spacecat** <https://github.com/neiljohari/spacecat>
Designed Arduino software to interact with sensors and serialize data using Protobuf for a high altitude weather balloon
2016 - now **Scram** <https://github.com/neiljohari/scram>
Programmed a transparent Ruby permissions system gem
2014 - 2015 **Mongoid Forums** https://github.com/NJayDevelopment/mongoid_forums
Developed a Ruby on Rails gem for forums with MongoDB integration
2012 - 2014 **AutoBroadcaster+** <https://dev.bukkit.org/projects/abp>
Published a server-wide scheduled broadcasting plugin for Minecraft which was downloaded 227k+ times

awards

2019 **Dean's List and University Honors**
In recognition of academic achievement
2018 **Nassau County Legislature Citation**
In recognition of leadership and community engagement
2018 **Bernie Goudreau Memorial Award**
In recognition of achievement in mathematics and computer science
2017 **1st Place at Andromeda, 2nd Place at WAC Invitational**
For the creation of a machine learning model to analyze MRI scans of Alzheimer's disease patients using convolutional neural networks
2015 **Gold Medal at Al Khalfus Math Fair**
For the creation of a model of video game hours played due to social influence with an analysis through machine learning