

neiljohari



software engineer

contact

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favorite technologies

git
vim
tmux

programming languages

Ruby
Java
C++
MATLAB
Python
ArduinoC

current courses

CS Pragmatics
Physics 240
Engineering 100
Statistics 240

courses taken

Differential Eqns.
Engineering 101
Physics 140

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: 4.0/4.0

Syosset, NY

GPA: 8.636/8.0

experience

2014 - now **Website Developer** <https://syosseths.com>
Selected to lead design and implementation of the new Syosset Senior High School's website utilizing Ruby on Rails, MongoDB, and Redis (2017-now). Responsible for 280+ commits with 24,000+ changes. Project was started from scratch, open sourced with MIT License, and features extensive permission system and administrative backend.
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

2016 - now **Scram** <https://github.com/neiljohari/scram>
Programmed a transparent Ruby permissions system gem with MongoDB integration.
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. Downloaded 227k+ times.

awards

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**
Awarded 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**
Awarded for the creation of a model of video game hours played due to social influence with an analysis through machine learning.