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 250

courses taken

Differential Eqns.
Engineering 101
Physics 140

education

2018 - 2022 **B.S.E.** in Computer Science — Ann Arbor, MI
University of Michigan College of Engineering — GPA: 4.0/4.0

2014 - 2018 **Diploma** with highest honors and Mastery in Science — Syosset, NY
Syosset High School — 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
– Responsible for 280+ commits with 24,000+ changes
– Project is open source (MIT License), began from scratch, and features an 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 which was 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