

Neil Johari

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Education:

- Syosset High School (2018)
- GPA: 100 / 100
- SAT: 1540 / 1600

Current Courseload:

- Advanced Research (2014-present)
- AP Calculus BC
- AP English Literature and Composition
- AP Microeconomics
- AP Physics C: Mechanics
- AP Physics C: Electricity and Magnetism
- AP Spanish Language
- AP US Government and Politics

Additional Courses:

- Machine Learning at Stanford Pre-Collegiate Program (2016)
- Modern Technology and 3D Printing at NYIT (2015)

Awards:

- 1st Place at NYSSEF Andromeda Science Fair (2016-2017)
- 2nd Place at WAC Lighting Foundation Invitational Science Fair (2016-2017)
- Gold Medal at Alfred Kalfus Long Island Math Fair (2015-2016)
- Outstanding Research Literary Award (2014-2015)
- AP Scholar with Distinction Award (2017)

Skills:

- Languages: English and Hindi (spoken)
- Computer Programming Skillset: Java, Ruby, HAML, ArduinoC, MongoDB, Redis

Experience:

- [Research](#) (2014-present)
 - o Created a machine learning model to analyze MRI scans of Alzheimer's disease patients using convolutional neural networks (2016-present).
 - o Created a model of video game hours played due to social influence with an analysis through machine learning (2015-2016).
 - o Conducted literary research on sleep deprivation (2014-2015).
- [Web Development Club](#) (2014-present)
 - o Designed and programmed the new [Syosset Senior High School's website](#) utilizing Ruby on Rails, MongoDB, and Redis.
 - o Led a content management team as president (2015-present).
- [HungerStruck](#) (2015-2017)
 - o Founder and lead programmer of online gaming community.
 - o Coded a new approach to game management in Minecraft utilizing Kotlin and Ruby on Rails.
- [Njay](#) (2012-present)
 - o Co-founder and programmer of website utilizing Ruby on Rails.
 - o Created and contributed to various open-source frameworks and libraries for projects, including GitHub's [peek-mongo](#) gem.

Projects:

- [Scram](#) (2017-present)
 - o Programmed a transparent Ruby permissions system gem with MongoDB integration.
 - o Used in Reddit's internal thread management system for Volunteer Live Team and in Syosset High School's official website.
- [Mongoid Forums](#) (2014-present)
 - o Programmed an open source Ruby on Rails gem for forums with MongoDB integration.
- OCRANN (2016)
 - o Programmed an optical character recognition software.
- [Autobroadcaster+](#) (2012-2014)
 - o Programmed a server-wide scheduled broadcasting plugin for Minecraft.
 - o Downloaded 225,000+ times, and is still in use by 200 servers.

Activities:

- Web Development Club (2014-present)
- Science Olympiad (2014-2015)
- Quizbowl (2015)
- Volunteer at Hicksville Gregory Museum (2014)