

Nehul Yadav

EDUCATION

Miami University, OH
B.S. (Honors) Computer Science
2019
GPA: 3.62

Full Tuition Scholarship

(Spring 2016) Data
Abstraction and Data
Structures, Software
Engineering, Object-
Oriented Programming,
Applied Statistics,
Elements Of Discrete Math

LEADERSHIP

President | Miami Hack
(miamihack2016.com)
March 2016 - present

Co-founded a 10-member club
to organize the first hackathon
for Miami University. Defined
Team Strategy.

Designed and implemented the
public registration website using
HTML, CSS, JavaScript,
Bootstrap, jQuery and hosted it
on the Amazon S3 web service.

SKILLS

Java, AngularJS, JavaScript,
jQuery, HTML/CSS, Bootstrap,
Swift, PHP
Git, SVN, IntelliJ IDEA, Xcode,
Jenkins, Siebel, Toad

LINKS

Github: [nehulyadav](https://github.com/nehulyadav)
Linkedin: [nehulyadav](https://www.linkedin.com/in/nehulyadav)

EXPERIENCE

First Year Research Intern | Miami University
Fall 2015 - Oxford, OH

- Implemented linear sequence motif search for 95% accurate correspondence among nucleotide and Dot-Bracket data.
- Fixed overlapping structure motifs when input query sequence was very long by specifically extracting a part of structure graph.
- Resulted in seamless DNA/RNA structure prediction over tools like RNAfold and Mfold shipped to the market in the past 7 years.

Productivity Apps Intern | Nationwide
Summer 2016 - Columbus, OH

- Rewrote an internal web application from scratch in Java and AngularJS to prevent a costly upgrade from Wavemaker 6 to 8.
- Deployed it in production, which resulted in the maintenance cost going down by 50% compared to an average of 25% last month.
- Created JUnit Tests for stored procedural calls for the PL/SQL database that increased release readiness by 75%.

Open Source Contribution— AngularJS

- Safeguarded the code from any dependencies that may not be using minification-safe practices using \$inject.
- Removed CSS class ng-binding from the data bound elements, which resulted in a significant performance boost.
- Implemented route resolve points to a named function which is easier to debug and handle dependency injection.

PUBLICATIONS

Liang, Chung, Jieming Shi, Min Dong, Mitchell Graham, Nehul Yadav, and Xin Li. "JNSViewer - a JavaScript-based Nucleotide Sequence Viewer for DNA/RNA Secondary Structures." Plant Physiology (2016): n. pag. Print.

A248832. Y. Nehul. Sum Of Denominators Of Mediants In Farey Sequence of order 1, 2...n. Web issn- 15-10-14. EIN 30-0562250.

PROJECTS

EcoWin (Swift, Xcode) (<https://github.com/nehulyadav/EcoWin>)

A socially engaging, competitive iOS app that aims to make pro-environmental habits & behaviors easy to log, daily and weekly points shareable, and overall inspiring to perform.

LaraMail (CSS, PHP, SQLite) (<https://github.com/nehulyadav/LaraMail>)

A powerful mail service that integrates with SMTP protocol and provides authentication over secure socket layer to protect system resources.