Nehul Yadav

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EDUCATION

Miami University, OH
B.S.Computer Science
August 2018
Full Tuition Scholarship

(Spring' 18) Computer and Network Security, Digital Modeling and Rendering, (Spring' 17) Algorithms, Operating Systems, Foundation Of Graphics, Data Abstraction, Software Engineering, Applied Statistics, Elements of Discrete Maths

LEADERSHIP

President|MiamiHack

March 2017 - Present

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

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

SKILLS

Java, Python, AngularJS, JavaScript, jQuery, HTML/CSS, PHP, Obj-C, Swift, Git, SVN, Jenkins, Siebel, Toad

LINKS

Github: nehulyadav
Linkedin: nehulyadav

EXPERIENCE

Software Engineering Intern | Apple

Summer 2018 - Cupertino, CA

- Implemented an internal pipeline for the Wireless Performance team using Java, ReactJS and Cassandra for evaluating performance and automation test results.
- Deployed it in production for aggregating tests across multiple iOS devices and carriers in international countries as part of the iTester team.

• Software Engineering Intern | Juniper Networks

Summer 2017 - Sunnyvale, CA

- Implemented and published two custom Python libraries to automate regression testing for Contrail Orchestration Cloud Platform that scales OpenStack clouds.
- Entire testing suite inherits from these libraries to test orchestration of compute, storage and networking of elastic infrastructure (> 4k test cases).

Software Engineering 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%.

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.

Open Source Contribution | Boltly (Angular JS) (https://git.io/vHAd1)

- 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.

PUBLICATIONS

Liang, Chung, Jieming Shi, Min Dong, Mitchell Graham, Nehul Yadav, and Xin "JNSViewer - a JavaScript-based Nucleotide Sequence Viewer for DNA/RNA secondary structures". PLOS ONE (2017) PONE-D-17-11295R1. Print.

PROJECTS

EcoWin (Swift, Xcode)   (https://github.com/nehulyadav/EcoWin)
A socially competitive iOS app that allows pro-environmental habits 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.