

# Vinay Singh

vinay-singh@huskers.unl.edu | 402-601-4646 | <https://vinay918.github.io/>

## EDUCATION

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Bachelor of Science Computer Science (Math Minor)  
University of Nebraska - Lincoln GPA: 3.97/4.00  
(January 2016-present; Expected Graduation: May 2019)

## RELEVANT WORK EXPERIENCE

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- **Nelnet IT Pathway Intern** Aug 2018-May 2019
- **Jeffrey S. Raikes School Design Studio Software Developer** Aug 2018-May 2019
- **Werner Enterprises DevOps Intern** May-Aug 2018
  - Assist in the migration of the CI/CD pipeline from a chained job methodology to pipeline as code (Jenkinsfile)
  - Implement intervention prompts in pipeline to recover from non-critical faults that cause build failures
  - Optimize pipeline development process by modularizing and exporting common steps to a shared library
- **University of Nebraska—Lincoln (UNL) Research Assistant** Jan 2017-May 2018
  - Participate in National Science Foundation (NSF)-sponsored research project advised by Professor Leen-Kiat Soh to optimize student learning through data mining and analysis
  - Analyze unstructured data using Java, IBM Watson's API, NLTK (Natural Language Processing), NetworkX (Semantic Networks), and Azure Machine Learning
- **University of Nebraska—Lincoln (UNL) Teaching Assistant** Jan 2017-May 2018
  - Supervise lab sessions, hold office hours, and grade assignments for CS I—MATLAB

## SKILLS & RELEVANT COURSEWORK

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- **Programming/Database:** Java (Object-Oriented), SQL/MySQL, MATLAB, Python, UNIX, JavaScript, HTML/CSS, Bootstrap, jQuery, C++, Haskell, Node.js
- **Machine Learning/Data Analysis:** Azure ML, Pandas, Scikit-Learn, NLTK (Natural Language Processing), NetworkX
- **Software/Other:** Jenkins, SVN, Eclipse, Git, Office Suite, Solidworks, AutoCAD
- **Courses:** Computer Science I & II, Discrete Structures, UNIX Programming, Data Structures & Algorithms, Programming Language Concepts, Software Engineering, Internet Systems & Programming, Design & Analysis of Algorithms, Operating System Kernels

## NOTEWORTHY PROJECTS (<https://github.com/vinay918>)

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- **Bone Age Classifier:** Application to predict age of person through classification of X-ray images—Python & Javascript, 2<sup>nd</sup> place at Cornhacks 2018
- **Titanic Survival:** Kaggle introduction—Machine Learning on Python (~200 lines of code)
- **teaCHat:** Chatroom application for college courses—Node.js (~500 lines of code)
- **CinemaTicketing:** Movie ticketing application—Java & MySQL (~2000 lines of code)

## ACTIVITIES

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- **Lincoln Cricket Club Member & Athlete** 2016-Present
  - 2017 Heartland Cricket League Champions, received 2 'player of the match' awards
- **Malaysian National Cricket Player** 2012-2016
  - ESPN Player Profile - <http://www.espncricinfo.com/ci/content/player/633654.html>
- **MV Logos Hope (German Humanitarian Ship) Port Volunteer** Sept-Oct 2015
  - Served ice cream and interacted with underprivileged children

## AWARDS / LEADERSHIP

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- Global Ambassador (UNL) 2016-Present
- Vice-Captain of State Cricket Team (Penang, Malaysia) 2015-2016

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- Malaysian National Sports Scholarship 2013-2016
- American Degree Transfer Program Student Council (Penang, Malaysia) 2013-2015