

Vinay Singh

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EDUCATION

Bachelor of Science	Computer Science (Math Minor)
University of Nebraska - Lincoln	GPA: 3.96/4.00
(January 2016-present; Expected Graduation: May 2019)	

RELEVANT WORK EXPERIENCE

- **University of Nebraska—Lincoln (UNL) Research Assistant** Jan 2017-Present
 - Participate in National Science Foundation (NSF)-sponsored research project advised by Professor Leen-Kiat Soh to optimize student learning through data mining and analysis
 - Build software to process and organize unstructured data using Java and MySQL
 - Analyze unstructured data using IBM Watson's API, NLTK (Natural Language Processing), and Azure Machine Learning
 - Build semantic network to model online student interactions using NetworkX on Python
- **University of Nebraska—Lincoln (UNL) Teaching Assistant** Jan 2017-Present
 - Supervise lab sessions, hold office hours, and grade assignments for CS I—MATLAB
- **Founder of Startup (Skiptuff—Project Terminated)** Nov 2016-May 2017
 - Conduct market research, develop website, and pursue legal clearance for start-up aimed at connecting international students to relevant college information

SKILLS & RELEVANT COURSEWORK

- **Programming/Database:** Java (Object-Oriented), SQL/MySQL, MATLAB, Python, UNIX, JavaScript, HTML/CSS, Bootstrap, jQuery, AJAX, C++, Haskell, ANTLR, PHP, JSP, Servlet
- **Machine Learning/Data Analysis:** Azure ML, Pandas, Scikit-Learn, NLTK (Natural Language Processing), NetworkX, Weka, Statistics
- **Software/Other:** Eclipse, GitHub, WordPress, Minitab, Office Suite, Solidworks, AutoCAD
- **Courses:** Computer Science I & II, Discrete Structures, UNIX Programming, Data Structures & Algorithms, Programming Language Concepts, Software Engineering (In-Progress), Internet Systems & Programming (In-Progress), Design & Analysis of Algorithms (In-Progress)

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

- **Titanic Survival:** Kaggle introduction—Machine Learning on Python (~200 lines of code)
- **Web App Template:** MVC web application template—PHP (~300 lines of code)
- **OBMS:** Database-backed, object-oriented application—Java & MySQL (~2000 lines of code)
- **DefCalc:** Beam loading analysis tool—MATLAB (~1000 lines of code)
- **Web Scrapers:** Scripts to extract grades and news headlines—Python (~100 lines of code)

ACTIVITIES

- **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.espnccricinfo.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

- Global Ambassador (UNL) 2016-Present
- Vice-Captain of State Cricket Team (Penang, Malaysia) 2015-2016
- Malaysian National Sports Scholarship 2013-2016
- American Degree Transfer Program Student Council (Penang, Malaysia) 2013-2015