Justin "JD" Nir

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315 N 44$^{\text{th}}$ St., #1004, Lincoln, NE 68503

US Citizen

EDUCATION

University of Nebraska-Lincoln, Lincoln, NE

Ph.D. in Mathematics, May 2020 (anticipated)

MA in Mathematics, May 2017

Selected Coursework:
- Special Topics in Discrete Mathematics: Extremal Graphs and Hypergraphs
- Special Topics in Discrete Mathematics: Bijective Combinatorics
- Special Topics in Discrete Mathematics: Applications of the Probabilistic Method

Carnegie Mellon University, Pittsburgh, PA

Bachelor of Science in Computer Science, May 2013

Bachelor of Science in Discrete Math and Logic, May 2013

Selected Coursework:
- 15-451 Algorithm Design and Analysis
- 21-701 Graduate Topics in Discrete Mathematics

SKILLS

Software: git, vim, gdb, SQL, Apache, LaTeX, BurpSuite, Wireshark

Languages: Python, Ruby, C, Javascript, PHP, Java, Go, C++, Basic, x86 Assembly

EXPERIENCE

University of Nebraska-Lincoln Math Department, Lincoln, NE

Teaching Assistant, August 12, 2015 — present
- Instructor of record for algebra, trig. and single- and multivariable calculus courses
- Lead lecture-based and active learning classrooms

MIT Lincoln Laboratories, Lincoln, MA

Summer Intern, May 2016 — August 2016
- Developed software for a secure database prototype.

Fast Orientation, Washington, D.C.

Research Engineer, January 12, 2015 — July 24, 2015
- Research, design and prototype product features
- Provide analysis for security evaluations

Independent Security Evaluators, Baltimore, MD

Security Analyst, July 1, 2013 — January 2, 2015
- Evaluate applications and document vulnerabilities
- Develop and present security-oriented training seminars

INVITED TALKS

The Chromatic Number of Random Lifts of Complete Graphs
　　University of Colorado-Denver Discrete Mathematics Seminar, April 2019

Turán-Type Questions about Cliques and Stars
　　CombinaTexas 2019, College Station, TX, March 2019

Industry-wide Misunderstandings of HTTPS
　　International Conference on Information Security and Cryptology, Seoul, November 2013