

# Neeraj Aggarwal

aggarwal.neeraj141@gmail.com  
650.906.9888

neerajaggarwal.com  
linkedin.com/in/neeraj-aggarwal  
github.com/n3a9

## EDUCATION

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- **University of Illinois at Urbana-Champaign** August 2018 – May 2021 (Expected)  
*Bachelor of Science in Computer Science (College of Engineering)* Champaign, IL
  - **Research:** Currently exploring the reliability and resilience of deep neural networks by developing a run-time fault injection tool to model bit flips within neurons in the hidden layer using PyTorch
  - **Non-Profit Work:** Am a software developer for the non-profit organization Hack4Impact, working with Cut to the Case to improve the safety of students by developing an app using React Native, Python, and Flask
- **The Harker School** August 2014 – May 2018  
*High School* San Jose, CA
  - **Activities:** Co-Editor-in-Chief of science research journal (Harker Horizon), President of MIT Launch and TED-Ed clubs, Lead of Harker Development Team
  - **Hackathons:** Participated in seven college-level hackathons, mentored and judged five high school hackathons

## EXPERIENCE

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- **Nod Labs** June 2017 – August 2017  
*Software Engineer Intern* Mountain View, CA
  - Worked on computer vision team to help develop SLAM algorithms integrated directly into product software
  - Designed and implemented bag of words model for image classification, added as a support library into SLAM algorithm to substantially increase live object-tracking performance
  - Optimized 3D reconstruction projections by increasing accuracy using bundle adjustment algorithms
- **Thinkster** March 2016 – August 2016  
*Software Engineer Intern* Menlo Park, CA
  - Worked on development team to develop and maintain Thinkster's web platform serving over 10,000 monthly users
  - Designed, wrote, and published two courses: *Data Structures in Javascript* and *An Introduction to MEAN Stack*
  - Contributed to project RealWorld - a comprehensive demo application designed to teach a custom web stack
  - Led partnership with DigitalOcean to provide Thinkster Pro users credit to kick-start their project deployment

## SKILLS & COURSEWORK

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- **Coursework:** Software Design Studio, Discrete Structures, Numerical Methods, Computer Architecture, Compilers and Interpreters, Expert Systems
- **Languages, Tools & Frameworks:** Java, C++, Python, Kotlin, HTML, CSS, JavaScript, Git, OpenCV, React, Node.js, Amazon Web Services

## PROJECTS

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- **Elore** eloreprojects.com
  - Co-founded elore, a community devoted to sharing knowledge on problem solving and software development
  - Main contributor to open-source project development on GitHub, including conceptualizing and leading development of *programjs*, a comprehensive node module for algorithms and data structures in ES6
- **Vera** verafy.me
  - Developed Vera, an open-source artificial intelligence system that determines if a user-given statement is true or false analyzing queried information by search engines in a truth-detection algorithm

## AWARDS

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- **2nd Place Overall, Harker Hacks 2018** June 2018
- **Best Use of Wolfram Technology, LAHacks 2017** February 2017
- **Gold Competitor, USA Computing Olympiad** January 2017
- **Top Company and Most Progressive Company, MIT Launch** August 2016