

Daniel Solnik

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School Address:

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EDUCATION

The University of Chicago

Chicago, IL

Bachelor of Science in Computer Science and Statistics

Expected, June 2020

GPA 3.72/4.00, Dean's List, UChicago Neubauer College Scholarship

Courses: Honors Theory of Algorithms, Honors Discrete Math, Honors Calculus (I-II-III), Statistical Theory and Methods, Analysis in \mathbb{R}^n (I-II-III), Abstract Linear Algebra

SKILLS

Computer: *Proficient:* Python, C, C++, Javascript, MySQL, Haskell, Node.JS, Express

Knowledgeable: Ruby, Java, Excel, MongoDB, React, HTML, CSS

Languages: Native English speaker; Proficient in Spanish

EXPERIENCE

The University of Chicago

Chicago, IL

Grader for Intro to Computer Science

September 2017- December 2017

- Evaluated and gave weekly feedback to 20 students enrolled in Intro to Computer Science (CMSC 121)
- Utilized real world data sets using Python and Java for data processing and computational thinking

iD Tech Camps, New York Institute of Technology

Old Westbury, NY

Instructor

June 2017 - August 2017

- Instructed 60 students (ages 13-17) in two week courses on Java, Python and computer fundamentals
- Designed curriculum to teach object-oriented programming and APIs such as Processing

The University of Chicago

Chicago, IL

Researcher in Department of Computer Science

September 2016 - January 2017

- Collaborated with Professor John Goldsmith on open source computational linguistics and language processing project using Python, Pandas, ETE, to read language dictionaries and analyze word relations
- Generated RadViz and Hierarchical tree visualizations for 40,000 words in any given language

Stony Brook University

Stony Brook, NY

Researcher in Computational Science Laboratory

June 2015 - October 2015

- Developed the first continuous mathematical function to accurately model platelet morphology at different states of activation using MATLAB and Java
- Wrote a 20-page science research article and poster board on the model

PROJECTS

College Rankings Ranked (Personal Project; [GitHub](#))

December 2017 - Current

- Creating a template ranking site with easy to use admin panel in Javascript
- Using MongoDB/Mongoose for database, Express for routing, Mocha for unit-testing, bcrypt-js/jsonwebtoken for secure password storage and verification and cookies for data persistence

Free-Watch (hackIllinois; John Deere Grand Prize; [GitHub](#))

February 2018

- Selected for John Deere Grand Prize for Best Hack
- Created a web application to turn any number of internet connected devices into a remotely activated home security system, analyzing the live video with a CNN to detect intruders and text owner picture
- Used Socket.IO for remote features, Express for routing, Webcam.JS to snap pictures and Twilio for SMS

Node-Chat-App (Personal Project; [GitHub](#))

December 2017

- Created a live chat application with location services, vulgarity censoring and live room list in Javascript
- Used Socket.IO for live chat, Mustache for templating, Express for routing, Mocha for unit-testing