

# Seyoung Kim

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## EDUCATION

**UNIVERSITY OF PENNSYLVANIA** | SCHOOL OF ENGINEERING AND APPLIED SCIENCE | PHILADELPHIA, PA

Candidate for Bachelor of Science in Engineering | Major: Computer Science | May 2020

Cumulative GPA: 3.75 • Dean's List (2016-2017) • Invited to IEEE-Eta Kappa Nu Honor Society

## SKILLS

### TECHNICAL

Java • OCaml • Python • HTML • CSS • Git •  $\text{\LaTeX}$

### OTHER

SolidWorks • 3D Printing • Laser Cutting • Microsoft Office

## TECHNICAL COURSEWORK

### CURRENT

Data Structures and Algorithms • Introduction to Computer Architecture • Automata, Computability, and Complexity • Probability

### COMPLETE

Programming Languages and Techniques I • Mathematical Foundations of Computer Science • Linear Algebra and Differential Equations • Partial Differential Equations

## WORK EXPERIENCE

**PHYSICS DEPARTMENT, UNIVERSITY OF PENNSYLVANIA** | PHYS 151 LAB TEACHING ASSISTANT

January 2018 - | Philadelphia, PA

- Taught and graded reports for a lab section of PHYS 151, the introductory electricity and magnetism course.

**DRNDIC LAB, UNIVERSITY OF PENNSYLVANIA** | RESEARCH INTERN

May 2017 - August 2017 | Philadelphia, PA

- Worked in a condensed matter physics lab. Experimented with the chemical growth of two-dimensional materials.
- Investigated the use of nanopores in two-dimensional materials for applications such as DNA sequencing and water desalination.

**THOMSON LAB, UNIVERSITY OF PENNSYLVANIA** | HIGH SCHOOL INTERN

May 2016 - Aug 2016 | Philadelphia, PA

- Conducted instrumentation testing for a hardware update of CERN's Large Hadron Collider Experiment.
- Wrote software to clean data from testing of a hybrid controller chip.

## PROJECTS

**CODE FOR GOOD** | HISPANIC STUDENT RECOGNITION PROGRAM WEBSITE

November 2017 | Wilmington, DE

- Selected to compete in the JPMorgan Chase Code for Good Hackathon in a team of five members.
- Built a website, implemented with the Django web framework, to field applications for the Latin American Community Center's Hispanic Student Recognition Program.

**CONNECT FOUR** | CIS 120 FINAL PROJECT

December 2017 | Philadelphia, PA

- Implemented the game Connect Four with a computer player, using Java Swing library.

## ACTIVITIES

**WOMEN IN COMPUTER SCIENCE** | GENERAL BOARD REPRESENTATIVE

**PENN YALLA** | BUSINESS MANAGER

**UNDER THE BUTTON (HUMOR AND SATIRE BLOG)** | EDITOR

**SIMPLY CHAOS (STAND-UP COMEDY COLLECTIVE)** | PRODUCTION CHAIR