RACHEL NASH

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EDUCATION

Cornell University, College of Arts and Sciences ♦ *Ithaca, NY*   *Expected May 2020*
- B.A. in Computer Science, **GPA 3.81**
- Completed Major Coursework: Object-Oriented Programming and Data Structures, Discrete Structures, Introduction to Python, Linear Algebra
- Current Major Coursework: Systems Programming, Intro Web Design
- Awards: Dean's List Fall 2016-Spring 2017

PROJECTS

Research Connect   *October 2017-Present*
- Developer for Research Connect, a website for connecting professors with students who want to do research. This is a sub-team of the engineering project team CDTI.

32-bit MIPS Processor   *October 2017*
- 5-stage pipelined processor with jumps, branches, data forwarding, and stalling

Image Processing Research   *January 2017-Present*
- Work in progress writing a program for analyzing thousands of images to assist a PHD student. Using edge detection for accurate measurement of cell area from microscope pictures.

WORK EXPERIENCE

CU Engineering Success (CUES) ♦ *Cornell University*   *October 2017-Present*
Private Tutor
- Tutoring a student in Discrete Structures (CS2800) with CUES, a program to increase the graduation rates of underrepresented minority and first generation engineering students

Geopier Foundation Company ♦ *Mooresville, NC*   *June 2017-Aug. 2017*
Intern
- Proposed and developed an automation for modulus test database entries, reducing time required by 66% while also making it more user-friendly and mathematically accurate. Taught myself VBA to code this in Excel.
- Maintained modulus test database with manual data entry. Researched and presented findings on competitors' and licensees' social media accounts.

Intro to Python Workshop ♦ *Mooresville, NC*   *June 2017- Aug. 2017*
Teacher, Self-started
- Wrote lesson plans and assigned homework to teach 4 students coding basics in Python. Met twice/week for 4 weeks and covered topics including object-oriented programming and recursion.

Mathnasium Learning Center ♦ *Mooresville, NC*   *Aug. 2012- Feb. 2016*
Lead Instructor
- Taught students K-12 with emphasis on improving foundational skills and mental math, often balancing up to six students (in a variety of grades) at once.
- Trained new tutors and assisted with administrative work, such as organizing student binders.

SKILLS

Proficient: Java, Python, HMTL, CSS
Familiar: VBA, Photoshop, Microsoft Word, Excel, & PowerPoint
Languages: English (native), Italian (intermediate)

CLUBS AND INTERESTS

Volunteer teacher for WICC's Girls Who Code program
Trainee working towards being a peer counselor for EARS
Interested in: Linguistics, Rubik's Cube Speed-Solving, Art/Design, Acrylic Painting, Feminist Activism, Acting