

# RACHEL NASH

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## EDUCATION

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**Cornell University, College of Arts and Sciences ♦ Ithaca, NY**

*Expected Graduation: May 2020*

- B.A. in Computer Science, Minor in Linguistics, **GPA 3.82**
- Relevant Coursework: Object-Oriented Programming and Data Structures, Operating Systems, Computer Systems Programming, Graphics, Intro Web Design, Discrete Structures, Intro to Python, Game Design
- Upcoming Coursework: Functional Programming, Artificial Intelligence, Algorithms, Tech for Social Impact
- Dean's List: Fall 2016, Spring 2017, Fall 2017

## SELECTED PROJECTS

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**Research Connect: Front-End Developer and Designer**

*October 2017 - Present*

- Using React to develop the front-end for a website that connects professors and undergraduate researchers. Features I have implemented include a filter and search page, comparison of student information and position requirements to determine matches, registration forms, and CSS styling for nearly all the pages.
- Collaborating with a team of 7 programmers and designers using the Scrum framework.

**Systems Programming Projects**

*October 2017-December 2017*

- Designed a 5-stage pipelined processor with jumps, branches, data forwarding, and stalling.
- Implemented memory allocation functions in C from scratch (functionally similar to built-in malloc function).

## WORK EXPERIENCE

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**Cisco Systems ♦ Research Triangle Park, NC**

*June 2018 - August 2018*

IT Intern

- Implemented all the front-end features for an internal project management Flask app created from scratch with a team of two other interns. The site was created to cut costs (\$50,000 annually) by reducing Salesforce use. It allows managers to track their resources, visualize their team's time utilization, and easily assign tasks.
- Created a cross-platform web service for file encryption and tagging using WebSockets with Java.
- Analyzed patterns in company data egress using Splunk to assist in designing data loss prevention policies.

**Systems Programming & Operating Systems ♦ Ithaca, NY**

*January 2018 - Present*

Teaching Assistant

- Held office hours, graded assignments, and assisted students in lab section for Systems Programming (CS3410) and Operating Systems (CS4410).

**CU Engineering Success ♦ Ithaca, NY**

*October 2017 - December 2017*

Private Tutor

- Tutored for Discrete Structures with CUES, a program to increase the graduation rates of minority students.

**Geopier Foundation Company ♦ Mooresville, NC**

*June 2017 - Aug. 2017*

Intern

- Proposed and developed an automation for modulus test database entries, reducing user 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 and presented findings on competitors' and licensees' social media accounts.

## SKILLS

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**Proficient:** Python, Java, React.js, HTML, CSS

**Familiar:** C, JavaScript, jQuery, Docker, Git Flow, Splunk, Photoshop, Illustrator, Sketch

**Languages:** English (native), Italian (intermediate)

## CLUBS AND INTERESTS

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Volunteer teacher for Women in Computing at Cornell (WiCC)'s Girls Who Code program

Front-end developer for Cornell Design and Tech Initiative (CDTI)

**Interested in:** Web Design, Linguistics, Cyber Security, Functional Programming, Music, Rubik's Cubes, & Art