

# Rafael Barash

609 15<sup>th</sup> Ave SE  
Minneapolis MN 55414

414-704-7744  
baras015@umn.edu

---

## Education

**Bachelor of Science, Computer Science**, Expected May 2020  
**College of Science and Engineering**, University of Minnesota-Twin Cities, MN  
**GPA:** 3.376  
**Coursework:** Introduction to Algorithms and Data Structures(IP); Discrete Structures; Multivariable Calculus; Applied Linear Algebra(IP)

## Skills

**Languages:** Python(Advanced), Java(IP), HTML(Proficient), CSS(Proficient), JavaScript(Basic)  
**Frameworks:** Bootstrap(Proficient), Django(Basic)

## Projects

**Personal Website – Personal Project** (June - July 2017)

- <http://rafibarash.com>
- Created personal website in HTML, CSS and JavaScript.
- Used bootstrap to make design responsive for phone, tablet, and monitor.

**Blackjack Simulation – Personal Project** (May 2017)

- Created interactive Python script where you can play blackjack against a computer dealer.
- Includes all basic functionalities such as betting, and hit, split, double down, and stay.
- Utilized class inheritance layers.

**Forest Fire Simulation – Course Project** (April 2017)

- Created Python script with Tree objects, a Forest data structure, and a main method which loops until the fire runs out or all the trees are burned down.
- Inputs wetness of forest, pine vs oak trees, and forest density affect how simulation will run.
- Visualized simulation in Turtle Graphics.

## Leadership

**Gopher Invite Coordinator**, Club Tennis (July 2017 - Present)

- Contacted teams from around the country to organize 24 team, two-day tournament.
- Booked hotel block for the tournament and organized catering.
- Designed promotional flyer, t-shirt and Snapchat filter.

## Work Experience

**IT Intern**, University of Minnesota Humphrey School of Public Affairs (February 2017 - Present)

- Built personal website for the Chair of Technology and Public Policy.
- Created a responsive frontend theme for multipage website.
- Utilized Django for templating new pages, URL mapping, and page editing through Admin page.

**Tennis Coach**, North Shore Country Club (Summer 2017)

- Taught lessons to parents and children of all ages.
- Created billing spreadsheets to track billing of drills and members.
- Led “Kids Night Out” event consisting of multiple sports challenges for 30 children.

## Activities and Honors

**Peer Mentor**, CSE Peer Mentor Program (2017 – present)

**Member**, Club Tennis, University of Minnesota (2016 – present)

**Member**, Sigma Alpha Mu Fraternity, University of Minnesota (2016 – present)

**Bentson Scholar**, University of Minnesota (2016 - present)