Rafael Barash

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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 PublicAffairs(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)