

Natalie Wiegand

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA

May 2020

Bachelor of Science in Engineering, Computer Science

- Relevant Coursework: Mathematical Foundations of Computer Science, Programming Languages and Techniques I
Programming Languages and Techniques I
 - Created programs in OCaml and Java including paint program, photo editing program and interactive game
 - Presented projects weekly explaining form and function to TA panel for evaluation

Harvard-Westlake School, Studio City, CA

June 2016

- Honors: National Merit Commended Student, Honor Roll, French Honor Society, National AP Scholar, Community Service Award
- Activities: Community and Character Council Chair, Varsity Volleyball

TECHNICAL SKILLS

- **Programming Languages:** Java; OCaml; JavaScript; HTML; CSS; Objective C; Arduino; Ruby
- **2D/3D Software:** Adobe Illustrator; Adobe Photoshop; Solidworks

EXPERIENCE

Girls Who Code Club at the Penn Alexander School, Philadelphia, PA

January 2017-present

Head Mentor and Teacher

- Lead weekly meetings and teach coding concepts for a group of 20 students
- Formulate lesson plan and prepare for meetings
- Teaching JavaScript, HTML/CSS

FemmeHacks, Philadelphia, PA

February 2017

Microsoft: Most Inclusive Design Award Winner

- Built a user-friendly website in less than 11 hours that ensure the correct use of medications through informational reminders in JavaScript and HTML/CSS using the Google Maps and Google Calendar APIs

University of Pennsylvania Outdoors Club, Philadelphia, PA

February 2017-present

Website Developer

- Working mainly on the front-end in a team of four creating a website for members to save and recommend locations including hiking trails, camping sites and restaurants using HTML, CSS, JavaScript, Node.JS

Flappy Fieldman

February 2016-April 2016

Co-Creator

- Create iOS application in Objective C with friend in honor of our favorite game and teacher

Boys and Girls Club Summer Robotics Program, Los Angeles, CA

Summer 2013 – 2016

Mentor, Coordinator and Co-Founder

- Taught 15 student class in Hummingbird Arduino program and TinkerCad
- Organized schedule and designed curriculum to maximize student enjoyment and learning
- Led student groups in choosing a project, R&D and presenting
- Grew program from 20 students to 40 students

Sunshine Volleyball Club, Los Angeles, CA

October 2015 – May 2016

Coach

- Coached 12 player 7th Grade volleyball team to compete in National Tournaments traveling to AZ, FL, MN

Laboratory for Electro-Magnetically Inspired Biomaterials and Bio-Systems (LEMIBBS), Providence, RI

Summer 2015

Research Assistant

- Troubleshoot and fixed existing Arduino-run automated Hydrogel and Ferogel drug delivery testing machine

PERSONAL

- **Interests:** Running; Hiking; Skiing; Cooking; Beach Volleyball; Traveling; Scuba Diving; Geocaching