Caitlin M. Westerfield

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Education:

Yale University New Haven, CT
Bachelor of Science in Computer Science; Bachelor of Arts in Religious Studies Class of 2020
- Relevant Coursework: Natural Language Processing, Algorithms, Data Structures & Programming Techniques, Linear Algebra & Matrix Theory, Discrete Mathematics, Ordinary & Partial Differential Equations

Budapest University of Technology & Economics Budapest, Hungary
Aquincum Institute of Technology June 2017-July 2017
- Relevant Coursework: Mobile Software Development

Evanston Township High School Evanston, IL
National Merit Scholar Class of 2016
- Founder of the Women in Science, Technology, Engineering, and Mathematics Club

Programming Skills:
- Proficient: Python, C, Java, JavaScript
- Exposure: HTML/CSS, R, System Verilog HDL

Technical Experience:

AT&T Chicago, IL
Software Engineering Intern June 2018-August 2018
- Prospective intern working on software development projects

Codesmith Bootcamp Los Angeles, CA
Summer Academy of Code August 2017
- Designed a website in a team using the Google Maps API that allows a user to map out a running route and view the route using Google Street View in a boot camp focused on web development

Research Experience:

The Language Information & Learning at Yale Lab, Yale University New Haven, CT
Machine Translation for English Retrieval of Information in Any Language Project September 2017-present
- Redesign translation software for a cross-lingual information retrieval system specifically for low-density and surprise languages, with training data in Swahili and Tagalog

All About NLP Project September 2017-present
- Create and update the All About NLP (AAN) website interface and database with a focus on improving search queries through machine learning as part of a team of developers
- Publication: Fabbri, A., Li, I., Trairatvorakul, P., He, Y., Ting, T., Tung, R., **Westerfield, C.,** Radev, D. (2018) "TutorialBank: Using a Manually-Collected Corpus for Prerequisite Chains, Survey Extraction and Resource Recommendation." *Association for Computational Linguistics* (accepted for 2018).

Andersen Lab, Northwestern University Evanston, IL
Genome Assembly & Annotation Project September 2015-July 2016
- Used R to research mutations in the RAS pathway in Caenorhabditis elegans to determine possible sites of cancer in the equivalent human pathway

Technology Education Experience:

Code Haven
Curriculum Director January 2018-present
- Develop a year-long computer science curriculum applicable for students in grades 5 – 8 focused on teaching programming fundamentals that culminates in a final project

Events Director May 2017-May 2018
- Organized a computer science project fair for more than 120 students and 200 parent attendees to showcase student progress after a year of the Code Haven curriculum
- Directed a conference that will guide more than 50 teachers from elementary and middle schools across Connecticut on how to introduce computer science and programming software into their classrooms

Lead Classroom Teacher January 2017-present
- Teach computer programming and Android app development (using App Inventor) to more than 120 middle schoolers per year in the New Haven Public School District

Undergraduate Learning Assistant, Yale University Computer Science Department January 2018-present

- Teach review sessions, host office hours, grade assignments, and mentor final projects for the Introduction to Computer Science and Introduction to Programming courses, as well as participate in teacher training workshops

Extracurriculars & Leadership:

Yale Undergraduate Society of Women Engineers

President (April 2018-present); *Vice President* (May 2017-March 2018)   May 2017-present
- Create pathways for women engineers at Yale to explore post-graduate opportunities by hosting professional development events and organizing group attendance at the National SWE conference

Float: Yale Women in Computer Science Society

President (May 2018-present); *Events Committee* (May 2017-April 2018)   May 2017-present
- Foster greater community among Yale women and gender minorities in the computer science major through workshops, social events, town hall meetings with professors, and company partnerships

Interests
- Yale Ski Team; Running (2016 New York Marathon, 2017 Marine Corps Marathon)