

Amelia Wissink

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EDUCATION

- **Columbia University in the City of New York** New York, NY
B.S., Computer Science; GPA: 3.71/4.00 Sep. 2020 – May 2024
- **Relevant Coursework:** Data Structures and Algorithms, Computer Systems, Linear Algebra, Advanced Programming, Discrete Math, Computer Science Theory, Artificial Intelligence, Natural Language Processing, Computer Vision, Advanced Database Systems, Accessible User Interface Design

EXPERIENCE

- **Columbia University** New York, NY
Teaching Assistant Sep. 2021 - Current
 - Wrote Python script to automatically update remaining assignment grace days for students, reducing gradebook updating time by over 90%
 - Regularly grade homework and exams and attended weekly meetings for classes of 400+ students
 - Hold weekly office hours to answer student questions and help debug code
 - Courses: Introduction to Programming in Java, Data Structures and Algorithms, Introduction to Databases
- **Google** San Bruno, CA
STEP Intern May 2022 - Aug. 2022
 - Developed a scalable tool to automatically generate documentation for end-to-end metrics used across YouTube product areas, significantly reducing the overall time spent searching for critical metric information
 - Wrote and solicited feedback on a design document for a protocol buffer to store end-to-end metric metadata, collaborating across several site reliability teams to do so
 - Designed, implemented, and tested an inspection script to programatically extract metadata from Go files and convert it into a human readable format such that the data can be easily viewed and queried
 - Successfully completed leadership workshops at the Google Women Intern Community (gWIC) Summit
- **Girls Who Code** Remote
Teaching Assistant Jun. 2021 - Aug. 2021
 - Taught a front-end web development curriculum in HTML, CSS, and JavaScript to a cohort of female-identifying high school students
 - Cultivated an uplifting and supportive classroom culture by leading advisory meetings 3 times a week and holding regular office hours
 - Collaborated with partner companies such as AT&T, Accenture, and Snapchat to hold engaging events for students
- **Code.Challenge Conference for Women in Tech** Chicago, IL
Event Coordinator Feb. 2020
 - Organized and managed the conference planning process, gathering a wide range of industry professionals from leading companies such as Google to speak and lead workshops
 - Conducted extensive outreach to local high schools via email and social media, increasing total conference registration by nearly 150% from previous years

TECHNICAL SKILLS

- **Languages:** Java, C, Python, MySQL, Go, HTML, CSS, JavaScript, Swift, Bash
- **Tools:** Git, Linux, Bootstrap, MongoDB, Neo4j, Xcode, TensorFlow, PyTorch, OpenAI GPT-3

PROJECTS

- **Information Extraction System:** Used SpanBERT and the OpenAI GPT-3 API to implement the iterative set expansion algorithm for information extraction, fetching relational tuples from unstructured documents on the Internet based on a user seed query.
- **DCGAN on MNIST Dataset:** Implemented a deep convolutional GAN using PyTorch to generate different images from the MNIST dataset.
- **2048 Solver:** Implemented a 2048 solver in Python using the expectiminimax adversarial search algorithm with alpha-beta pruning to generate move logic.

ADDITIONAL EXPERIENCE AND AWARDS

- **Campus Involvement:** Undergraduate Scholars Program, Society of Women Engineers, Women in Computer Science, Alpha Chi Omega (Executive Board)
- **Awards:** Dean's List (Spring 2021, Fall 2020), SEAS Summer Design Challenge Finalist (2020), NCWIT Aspirations in Computing Award National Honorable Mention (2020)
- **Personal Interests:** Reading, music, cooking, exploring new restaurants