

Natalie Isak

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WORK EXPERIENCE

Incoming SWE Intern – Microsoft, *Remote*

- Sept '20 - **Researcher** – Cornell Netlab, *Ithaca, NY*
- Collaborated with a team of researchers to standardize networking processes using OCaml
- Jan '19 - **Head Consultant** – Cornell Introduction To Computer Science Course, *Ithaca, NY*
- Only freshman selected to join the course staff
- Answered questions regarding fundamental computing concepts during office hours
- Graded assignments and exams
- Sept '20 - **Data Science Intern** – Tesla, *Remote*
Dec '20
- Designed and built an automated machine learning model to predict the frequency of vehicle order cancellations using SQL and Python
- Ideated and created various Tableau visualizations of cancellation predictions for senior engineers and the director of data analytics
- Built data pipelines to source, transform, and transfer data into EDW
- May '20 - **Backend SWE Intern** – Uber (UberSTAR Program), *Remote*
Aug '20
- Integrated an external vendor's API in Java for a new rider verification feature based on validating government-issued ID (projected to reduce rider to driver conflict by 15%)
- Implemented the fuzzy matching library in Uber's code base
- Wrote extensive, configurable integration tests in Golang
- Developed a new SOS feature in a hackathon with 3 other interns
- May '20 - **Instructor** – Juni Learning, *Remote*
Jan '21
- Led lessons on foundational computer science principles (~8 lessons/week)
- June '19 - **Technical Analyst / IT Intern** – Havas Health & You, *New York, NY*
Aug '19
- Optimized the business card creation process by building a request/approval form in the IT services site using HTML and C#
- - Imaged, backed up, and troubleshot PCs and Macs

PROJECTS

- Feb '19 - **Sub-Team Lead** – AguaClara Project Team, *Ithaca, NY*
- Managed four members of the subteam and create an ambitious yet feasible agenda for the semester
- Developed an application to determine the effectiveness of water purifying techniques
- Designed and implement a recursive Python algorithm that counts and sizes images of dirt particles received from a microscopic camera
- Created an offline database using SQLite to store and access data

LEADERSHIP

- Jan '19 – **Executive Board Member** – Women In Computing At Cornell, *Ithaca, NY*
Aug '20
- Networked with corporate recruiters to establish or maintain positive relations between Cornell and the company
- Organized and facilitated events (approx. 3/ semester) regarding making the CIS community more inclusive
- Brainstormed ideas and planned the logistics of unique, fun, and educational events for women interested in computer science at Cornell (approx. 5/ semester)
- Collaborated with two other organizations to plan the bi-annual CIS formal (under budget of \$7750 and sold out with 250 attendees)
- July '20 - **Logistics Coordinator** – STEMGirls Nonprofit, *Remote*
Nov '20
- Standardized and simplified a system to track students' progress
- Recruited new students for the program and facilitated donations

VOLUNTEER EXPERIENCE

- Sept '18 - **Volunteer** – Girls Who Code, *Ithaca, NY*
Dec '18
- Taught middle schoolers the fundamentals of computer science using Khan Academy

EDUCATION

**Cornell University,
College of Engineering**
B.S., Computer Science
Expected Graduation: May '22
GPA: 3.6 / 4.3

Scarsdale High School
GPA: 3.98 / 4.3
(unweighted)

RELEVANT COURSES

CS 3110: Data Structures and Functional Programming
CS 2110: Object Oriented Programming and Algorithms
CS 4670: Computer Vision
CS 2800: Discrete Structures
CS 2300: Digital Logic and Computer Organization
CS 3300: Data-Driven Web Applications

TOOLS & LANGUAGES

Java, Python, HTML/CSS, Javascript, OCaml, Golang, SQL, Git, Microsoft Suite, Tableau

SKILLS

Machine Learning, Computer Vision, Data Warehouse Architecture, Backend Engineering

HONORS + AWARDS

Intel URP Scholar (Spring '20)
Rewriting The Code Fellow ('20-'21)
Cornell Dean's List (Fall '18)
NSDA Superior Distinction Debate Award ('18)
Signifer (Scarsdale Honor Society)