

Natalie Isak

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WORK EXPERIENCE

- June '21 - Aug '21 **SWE Intern** – Microsoft, *Remote*
- Designed a new feature to set and reset the presence status for a new PSTN endpoint within the Intelligent Conversation and Communications Cloud team
- Implemented and tested the E2E API integration of this feature
- Sept '20 - May '22 **Researcher** – Cornell Netlab, *Ithaca, NY*
- Composed a pretty printer from Petr4 to Stdout
- Designed and wrote a compiler from Petr4 to C
- Jan '19 - May '22 **Head Consultant** – Cornell Introduction To Computer Science Course, *Ithaca, NY*
- Supervised a staff of ~60 undergraduate teacher's assistants
- Answered questions regarding fundamental computing concepts during office hours
- Graded assignments and exams
- Sept '20 - Dec '20 **Data Science Intern** – Tesla, *Remote*
- 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 - Aug '20 **Backend SWE Intern** – Uber (UberSTAR Program), *Remote*
- 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 - Jan '21 **Instructor** – Juni Learning, *Remote*
- Led lessons on foundational computer science principles (~8 lessons/week)
- June '19 - Aug '19 **Technical Analyst / IT Intern** – Havas Health & You, *New York, NY*
- 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 troubleshoot PCs and Macs

LEADERSHIP

- Feb '19 - **Research Advisor** – AguaClara Project Team, *Ithaca, NY*
- Managed three subteams to create an ambitious yet feasible agenda for the semester
- Developed an application to determine the effectiveness of water purifying techniques
- Designed and implemented a recursive Python algorithm that counts and sizes images of turbid particles received from a microscopic camera
- Created an offline database using SQLite to store and access data
- Jan '19 - Aug '20 **Executive Board Member** – Women In Computing At Cornell, *Ithaca, NY*
- Networked with corporate recruiters to establish and 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 - Nov '20 **Logistics Coordinator** – STEMGirls Nonprofit, *Remote*
- Standardized and simplified a system to track students' progress
- Recruited new students for the program and facilitated donations

VOLUNTEER EXPERIENCE

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

EDUCATION

Cornell University, College of Engineering

B.S. Computer Science, '22

GPA: 3.65 / 4.3

TOOLS & LANGUAGES

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

SKILLS

- Machine Learning
- Computer Vision
- Data Warehouse Architecture
- Backend Engineering
- Theoretical Cryptography
- Networking

HONORS + AWARDS

- Intel URP Scholar (Spring '20)
- Rewriting The Code Fellow ('20-'21)
- Cornell Dean's List (Fall '18, Spring '21, Fall '22, Spring '22)
- Lockheed Martin Corporate Award (Spring '22)
- Grace Hopper Cornell Scholarship (Fall '20)