

Anika Cave

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EDUCATION

Cornell University: College of Engineering – Ithaca, NY

Expected Graduation Date

Masters of Computer Science, Bachelor of Science in Computer Science + Physics minor

May, 2024

WORK EXPERIENCE

Seven Eight Capital

New York, NY

Incoming Quantitative Developer

August, 2024

Seven Eight Capital

New York, NY

Quantitative Developer Intern

June, 2023 – August, 2023

- Perform quantitative research into potential investment strategies using academic papers and external materials
- Data analysis on a large data set to search for profitable statistical edges
- Development of code and integration with testing procedures to measure effectiveness of proposed investment strategies

IMEC (Interuniversity Microelectronics Centre)

Leuven, Belgium

Quantum Computing Research Intern

June, 2022 – August, 2022

- Create software for physical realization of randomized-benchmarking on one and two qubit superconducting circuits
- Analyze randomized-benchmarking protocols, recommend protocols which supply optimal and meaningful data on IMEC qubit devices, and interpret how theoretical limitations of particular protocols may impact performance readings

Brightlight Capital Management

Westport, CT

Software Engineering Intern

June, 2021 – August, 2021

- Managed and implemented improvement strategies including: chatbots, web-scrappers, and analytical tools
- Designed, built, and deployed a Flask company back-end for optimized data collection, visualization, and web-scraping
- Integrated GCP projects to optimize efficiency and integration within workplace to facilitate management

Independent Technical Consulting/Contract Work

2020 – 2022

- Development of SSO and consultation on software privacy measures that abide by FERPA for an Ed-Tech startup
- Provide insight into possible machine learning or data-driven software solutions for non-profit organizations
- Development of algorithmic software for Partnerships for Children which automates tedious application reading + matching

TEACHING EXPERIENCE

Honors Data Structures and Algorithms Teaching Assistant (CS 2112)

Ithaca, NY

Linear Algebra For Engineers (MATH 2940) Workshop Leader (ENGRG 1094)

Ithaca, NY

CLUBS

Cornell University Unmanned Air Systems (CUAir)

Ithaca, NY

Imaging Systems/Intelligent Systems

November, 2020 – Present

- Develop synthetic-data and data augmentation algorithms for CUAir mask-rcnn machine learning models
- Work with 70 person team to link four separate software platforms for autonomous flight and image detection
- Handle implementation and documentation of interoperability client

PROJECTS

ETA Compiler

2023

- Design and program compiler(lexer, parser, semantic typechecker, IR) for the ETA programming language

COURSEWORK

- *Computer Science:* Graduate Theory of Information Networks, Graduate Applied Stochastic Processes, Theory and Analysis of Algorithms, Theoretical Mathematical Computing, Principles of Large Scale Machine Learning, Machine Learning, Intro to Operations Research, Graduate Linear Algebra, Compilers, Functional Programming, Computer System Organization, Honors Data Structures and Algorithms, Operating Systems
- *Physics:* Quantum Information Processing, Quantum Information Hardware, Intermediate Quantum Mechanics, Honors Waves, Analytical Mechanics, Differential Equations, Special Relativity, Graduate Multiwavelength Astronomy

RELEVANT SKILLS

- Java, Python, Kotlin, Javascript, Linux, OCaml, Logism, RISC-V, x84, Pytorch, Numpy, Pandas