

# Katherine Voor

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## EDUCATION

**CORNELL UNIVERSITY**  
**B.S. IN COMPUTER SCIENCE**  
**MINOR IN MATHEMATICS**  
College of Engineering  
May 2020 | Ithaca, NY  
Magna Cum Laude  
Dean's List (all semesters)

## LINKS

Github:// **kavoor**  
LinkedIn:// **katherinevoor**

## COURSEWORK

### UNDERGRADUATE

Compilers  
Advanced Compilers (Graduate)  
Operating Systems  
Systems Programming  
Computer Architecture  
Functional Programming  
Introduction to Analysis of Algorithms  
Machine Learning for Intelligent Systems  
Object-Oriented Programming  
Artificial Intelligence + Practicum  
Computer Networks  
Computer Vision

Theoretical Linear Algebra  
Applicable Algebra  
Number Theory  
Real Analysis  
Discrete Structures

## SKILLS

### PROGRAMMING

Over 10,000 lines:  
OCaml • Java  
Over 5000 lines:  
Go • MATLAB  
Over 1000 lines:  
Python • Rust • C++  
Hack • JavaScript  
  
Git • Vim • Verilog

## AWARDS

CS 3410 Outstanding TA Award  
Most Unique Hack at Big Red Hacks  
Best Social Good Hack at Pearl Hacks  
MongoDB Summit Attendee

## EXPERIENCE

### FACEBOOK, INC. | SOFTWARE ENGINEERING INTERN

June 2019 – Aug 2019 | Menlo Park, CA (Return Offer)

- Developer on the Hacklang Team. Worked across the Hacklang Compiler and HipHop Virtual Machine in OCaml, Rust, and C++.
- Designed and implemented constant static properties as a new language feature. Work included parsing, typechecking, and runtime support (JIT & Interpreter).
- Implemented constant-folding for constant static properties and achieved 0.97% less cpu-time for a single hot constant in www.
- Initiated abstract properties as a new language feature proposal. Investigated similar features in Scala, Kotlin, and Rust to develop the specification.
- Presented multiple times at the Hacklang Design Discussion and discussed new language feature proposals.
- Reached out to the Rust team and helped port the OCaml parser to Rust.

### AMAZON.COM, INC. | SOFTWARE DEVELOPMENT ENGINEERING INTERN

June 2018 – August 2018 | Seattle, WA (Return Offer)

- Developer on Amazon Elastic Container Services (ECS) on the Agent Team.
- Migrated client packages for the Docker Remote API from a third-party package to the official Go Docker SDK client.
- Experience with concurrent programming in Go and client/server architecture.
- Responsible for design documentation, determining project requirements, managing dependencies, and continuous deployment orchestration.
- Scope of project included migrating 92 critical files in the Agent repository and developing a test suite.

### CORNELL DEPT. OF COMPUTER SCIENCE | TEACHING ASSISTANT

Spring 2018, Fall 2019 | Ithaca, NY

- CS 3110: Data Structures and Functional Programming. Fall 2019.
- Held office hours, aided in grading, and designed rubrics.
- Topics include functional programming in OCaml and data structures such as Red Black Trees.
- CS 3410: Computer System Organization and Programming. Spring 2018.
- Held office hours and led weekly discussions.
- Topics include Systems programming concepts such as memory hierarchies and multicore architectures.

## PROJECTS

### XI++ COMPILER | COMPILER DEVELOPED IN CS4120

Aug 2016 - March 2018 | Ithaca, NY

- Collaborated on a team of 3 to develop a compiler in Java.
- Designed DP algorithm for tiling an abstract assembly tree.
- Responsible for implementing copy propagation, basic block reordering, and a significant portion of the parsing logic/AST design.

### REX | IOS APPLICATION FOR SYMPTOM AND MEDICINE LOGGING

Aug 2016 - March 2018 | Ithaca, NY

- iOS application developed as a part of the software subteam of Cornell Engineering World Health in coordination with professors from Weill Cornell.
- Responsible for Home Screen and Medicine View Screen functionality and design. Developed in React Native.