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
GPA: 3.75/4.0
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.