

# Evan Patrick

Seeking a Full-Time SWE Position

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## EDUCATION

### CORNELL UNIVERSITY

BS in Computer Science  
May 2021 | Ithaca, NY  
GPA: 3.9 / 4.0

## COURSEWORK

### GRADUATE

Distributed Systems<sup>TA</sup>  
Cryptography  
System Security  
Adv. Programming Languages  
Computer Vision

### UNDERGRADUATE

Operating Systems  
Honors Data Structures<sup>TA</sup>  
Functional Programming<sup>TA</sup>  
Intro to Algorithms  
Intro to Computer Networks  
Embedded Systems

## SKILLS

### PROGRAMMING

Golang • Python • Java • Rust  
C/C++ • OCaml • Verilog • L<sup>A</sup>T<sub>E</sub>X

### TECHNOLOGIES

Git • Linux • Protobuf • gRPC  
Flask • Docker • Docker-Compose  
Kubernetes • PostgreSQL  
Terraform • Jenkins • TCP/UDP

## EXPERIENCE

### LYFT | Software Engineering Intern

June 2020 - July 2020 | San Francisco, CA

- Led development for new project to monitor the reliability of all of Lyft's services by calculating SLO adherence and setting error budgets.
- Introduced feature to increase deployment times for services that don't adhere to SLOs.
- Designed a general purpose solution to allow for future features such as deploy freezes, automatically generating SEVs, and reporting error budget use for OKRs.

### UBER ATG | Software Engineering Intern

June 2019 - Aug 2019 | Pittsburgh, PA

- Designed and implemented module on the autonomous vehicle to communicate between the main software stack and failsafe device in order to minimize bandwidth usage.
- Implemented a highly efficient and reliable linear algebra library in C. Vehicle pose estimation has a direct dependency on this library.
- Improved acceleration profile of motorized test mannequins to become more reliable. Led to nearly half as many failed test scenarios.

### PHIZZLE | Software Engineering Intern

Jun 2016 - Aug 2018 | New York, NY

- Developed high performance IoT edge computing solution to generate C++ code based on a JSON rule set.
- Resulted in ~90% fewer computations when compared to the company's previous solution.

## COLLEGE ACTIVITIES

### CORNELL SYSTEMS GROUP | Researcher

Jan 2020 - Present | Ithaca, NY

- Worked under Cong Ding to create Ziplog, a state of art log that gives linearizability, scalability, and low latency. We utilized Paxos for ordering log entries and Primary Backup for data replication.
- Implemented the protocol using technologies including Golang and gRPC.

### CORNELL UNMANNED AIR SYSTEMS | Platform Systems Lead

Sept 2017 - Present | Ithaca, NY

- Leader of project team that creates autonomous fixed winged aircraft capable of waypoint navigation and ground target detection.
- Lead subteam responsible for autonomous image acquisition and management. Teaching and utilizing HTTP requests, inter-process comms, and frontend/backend development.