Evan Patrick

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EDUCATION

CORNELL UNIVERSITY
BS in Computer Science
Minor in Business
Dec. 2020 | Ithaca, NY
GPA: 3.9

COURSEWORK

GRADUATE
Distributed Systems**TA**
System Security
Adv. Programming Languages
Computer Vision

UNDERGRADUATE
Operating Systems
Honors Data Structures**TA**
Functional Programming**TA**
Algorithms
Computer Networks
Digital Logic
Embedded Systems

SKILLS

PROGRAMMING
Proficient:
Python • Rust • Go
Experienced:
Java • C/C++ • OCaml
Familiar:
Javascript • Verilog • LaTeX

TECHNOLOGIES
AWS • Linux • Git • Tokio
Docker • Kubernetes
PostgreSQL • Terraform

EXPERIENCE

LYFT | SWE on Capacity & Efficiency
February 2021 - Present | San Francisco, CA
- Built tools for managing AWS EC2 Reserved Instances to enable 8-figure annual savings, making use of various optimization and forecasting techniques
- Drove collaboration with external stakeholders for a project that estimates the costs of pull requests to prevent costly changes from accidentally being merged

LYFT | SWE Intern on Reliability
June 2020 - July 2020 | San Francisco, CA
- Led development for service to monitor the reliability of all of Lyft's services by calculating SLO adherence and setting error budgets
- Designed feature to increase deploy bake times for services experiencing SLOs misses, resulting in ∼30% of Lyft's services deploying more reliably

UBER ATG | SWE Intern on Controls
June 2019 – August 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 to enable vehicle pose estimation

EXTRACURRICULARS

CORNELL UNMANNED AIR SYSTEMS | Imaging Systems Lead
September 2017 – December 2020 | Ithaca, NY
- Member of undergraduate project team that creates autonomous fixed winged aircraft capable of waypoint navigation and ground target detection for an annual competition
- Led ten member subteam in charge of autonomous image acquisition and target identification tasks by utilizing embedded devices for gimbal and camera systems, plane/ground WiFi communications, and full-stack for a UI to identify targets
- Lead developer of the on-board imaging system to control camera and 2-axis gimbal using Rust and Tokio

CORNELL SYSTEMS GROUP | Distributed Systems Researcher
January 2020 – June 2020 | Ithaca, NY
- Worked under Cong Ding and Professor Lorenzo Alvisi to create a state of art distributed log that scales well with low latency and provides a linearizable interface
- Implemented protocol internals with Paxos for log entry ordering and Primary Backup for data replication