Evan Patrick

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EDUCATION

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

COURSEWORK

GRADUATE

Distributed Systems[TA]
Cryptography
System Security
Adv. Programming Languages
Computer Vision

UNDERGRADUATE

Operating Systems
Honors Data Structures[TA]
Functional Programming[TA]
Intro to Algorithms
Intro to Computer Networks
Embedded Systems

SKILLS

PROGRAMMING

Golang • Python • Java • Rust
C/C++ • OCaml • Verilog • LaTeX

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.

SCHOOL

CORNELL SYSTEMS GROUP | Researcher

Jan 2020 – Present | Ithaca, NY

- Worked under Cong Ding to create Ziplog, a state of art log that gives linearizabilty, 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.