Ricardo Delfin

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Profile

Systems-focused Software Engineer with a strong interest in Rust, embedded systems, distributed systems, reliability, observability, and automating the toil out of everyone's work.

Education

UNIVERSITY OF TEXAS
BS in Computer Science

📅 May 2018 📍 Austin, TX, USA

- 3.7/4.0 GPA

Links

- GitHub **rdelfin**
- LinkedIn **Ricardo Delfin**
- Website **rdelfin.com**

Skills

PROFICIENT
Rust • Python • C++ • Bazel

EXPOSURE TO
Hack/PHP • Java • SQL • Node.js • React • Buildkite • Ansible

CORE EXPERIENCE
Linux • Distributed Systems • Embedded

Experience

PRODUCTION ENGINEER & TEAM LEAD
Wayve Technologies Ltd.

📅 Sep 2020 – Present 📍 London, UK

- Lead team of 5 responsible for most of our AV software stack
- Wrote user-space drivers for camera stack in **Rust** including an ibverbs client/server for cross-device communication
- Massively improved observabilily from our vehicles, ensuring we collected and tracked key metrics and failures from our software
- Setup a formal support on-call system for our vehicle operators to ensure we identified and fixed real-world issues
- Worked with safety & control teams to deploy a new control module in **C++** that is fast, safe, reliable, and easy to experiment with

PRODUCTION ENGINEER
Facebook, Web Foundation Team

📅 December 2019 – August 2020 📍 London, UK

- Responsible for monitoring of Facebook's fleet of **Linux** web servers, as well as investigation, mitigation, and follow-up of major site incidents
- Drove cross-functional collaboration to limit wasted computational resources in downstream services on requests past their timeout, writing code in services in **C++**, **Python** and **Hack/PHP**
- Worked with teams across Facebook to improve their services reliability, availability and monitoring

PRODUCTION ENGINEER
Facebook, Server Repair Orchestration Team

📅 May 2018 – December 2019 📍 Dublin, Ireland

- Wrote workflows to provision, repair and decommission Facebook's growing fleet of Linux servers
- Rewrote the repair workflow in **Python** to allow for more complex repairs and a multi-step process to reduce part wastage and time out of production
- Kept high service reliability by monitoring metrics and being first responder on countless incidents
- Maintained and improved tooling and neglected parts of the workflow to ensure high reliability

Volunteering

FIRST ROBOTICS COMPETITION VOLUNTEER
FIRST

📅 2015 – Present 📍 Multiple

Head Referee, Referee, and Robot Inspector at multiple events in Mexico and the US

TEALS K-12 VOLUNTEER TEACHER
FIRST

📅 2015 – 2017 📍 Austin, TX, USA

- CS Assistant Teacher at Austin High School (2015-2016)
- CS Assistant Teacher at Austin Achieve Public Schools (2016-2017)