

Ricardo Delfin

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Profile

Systems-focused Software Engineer with expert proficiency in Rust, Robotics, embedded systems, distributed systems, reliability, observability, and automating for optimized efficiency.

Links

🔗 GitHub **rdelfin**
🌐 LinkedIn **Ricardo Delfin**
🌐 Website **rdelfin.com**

Skills

EXPERT

Rust • Python • C++ • Linux • Bazel

INTERMEDIATE

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

Volunteering

FIRST ROBOTICS COMPETITION

HEAD REFEREE

📅 2015 – Present 📍 Multiple
Head Referee, Referee, and Robot Inspector at events in Mexico and the US

Experience

SENIOR LINUX SOFTWARE ENGINEER

BLOOMBERG LP

📅 July 2024 – Present

📍 London, UK

- Contributing to state-of-the-art eBPF network monitoring for DORA compliance (**Rust**)
- Building an automated system to test new kernels on Bloomberg's Linux environment with Jenkins for more frequent releases

TECH LEAD & SYSTEMS SOFTWARE ENGINEER

WAYVE TECHNOLOGIES LTD.

📅 August 2021 – July 2024

📍 London, UK

- Led a team of 5 responsible for most of our Autonomous Vehicle (AV) software stack
- Planned and delivered autonomy software for our new generation of vehicles and compute platform on Nvidia Jetson
- Reworked our controller for faster experimentation by robotics team
- Owned Wayve's incident management and review process, including running regular post-mortem reviews
- Identified biggest reliability issues on our fleet and got MTTf from minutes to over 50 hours

SYSTEMS SOFTWARE ENGINEER

WAYVE TECHNOLOGIES LTD.

📅 September 2020 – August 2021

📍 London, UK

- Wrote user-space drivers for new Jetson camera stack, including an ibverbs client/server (**Rust**)
- Owned and improved observability of our vehicles, ensuring we collected and tracked key metrics and failures from our software
- Setup a formal support on-call for our vehicle operators to ensure we identified and fixed real-world issues

PRODUCTION ENGINEER

FACEBOOK

📅 May 2018 – August 2020

📍 Dublin, Ireland & London, UK

- Monitored Facebook's fleet of **Linux** servers, and investigated, mitigated, and validated major site incidents
- Drove cross-functional collaboration to limit wasted computational resources in downstream services on requests past their timeout (**C++**, **Python**, **Hack/PHP**)
- Wrote workflows to provision, repair and decommission Facebook's growing fleet of Linux servers
- Rewrote the repair workflow to allow for more complex repairs and a multi-step process to reduce server downtime and cost (**Python**)
- Served as first-responder on multiple incidents on the provisioning stack

Education

UNIVERSITY OF TEXAS

BS IN COMPUTER SCIENCE - 3.67/4.00

📅 May 2018

📍 Austin, TX, USA

- Part of the Building Wide Intelligence project and TA for CS378
- Projects included bwi_twitter, allowing members of the public to interact with our robots