Sean Borg

23 keats ave, Rochdale, Lancs, Ol127PZ Mob: 07492 308 491 sean@seanborg.tech www.seanborg.tech

Personal Statement

A software developer with a passion for Rust, having used it from bare metal (esp32-c3) to WASM and micro-service applications. My build deployment tool of choice is Nix having all my systems run it and orchestrating my boats automatons.

Work

Codethink

Software engineer

April 2020 - Current

(Full-time)

- Learned and made heavy use of CI, mainly through Gitlab (now have a personal cluster of RPI Gitlab runners) but also have experience using jenkins and circle CI
- Gained a good understanding of large scale build systems

Owner Track a Train Nov 2019 - Current (Part time)

- Available on android app store trackatrain.co.uk
- Gained understanding of android ecosystem; API's, google play store listing, charging subscriptions natively in app
- Making good use of unit tests to prevent regressions while iterating quickly

Software developer Handsfree Group January 2018 - April 2020

(Contract)

- Created a suite of apps hosted by Google app engine, front-end Angular, back-end Django
- Beta version of 'DVSA earned recognition's compliant software
- Back-end. Agency Driver Onboarding and Defect Reporting app, using test driven development to keep bugs down and prevent regressions
- Produced a demo Android app to communicate with a Pietel PTCarPhone in 4 days

PROJECTS

Nixos Self taught Feb 2021 - Current

- Learned and installed Nixos on all my devices, allowing me to treat my devices much more like cattle as rebuilding one can be done in minutes
- Manage 10+ devices with Nixos/Krops that can be updated remotely and do a wide variety of tasks; personal laptop, work laptop, home NAS and home automation

Rust Self taught Dec 2020 - Current

- Started learning during Advent of code and quickly became my favorite language. Now all my new projects public on Gitlab are in Rust, I maintain the zigbee2mqtt-types and help contribute to other open source Rust projects
- Using my spare times to explore different styles or rust I have had a project using; Async, multithreaded, bare metal and WASM. My next big one is interoperating with pre-exising C code/lib

Personal Home (boat) automation Oct 2020 - Current

- Rolled out sensors across boat to track various data points using open source tools; zigbe2mqtt, grafana, prometheus
- Thanks to nixos, all the computers are backed up nightly and easily redeployable in 15 min if any break
- I became unhappy with all the automation systems so started writing my own micro-services in Rust to handle them instead. A.K.A. "Skipper" on my Gitlab

EDUCATION

Bangor University

September 2015 - June 2018