

David Laban - alsuren@gmail.com - github.com/alsuren - alsuren.github.io

Open Source Software Maintainer - 2009 - Present

- cargo-quickinstall
 - Installer for pre-compiled binary packages (~1k package installs/day).
 - Automated package builder (using Github Actions Cronjobs to build untrusted code).
 - Feedback loop (via stats server) to make sure we build the packages that people are asking for.
 - Package repository is also used by popular `cargo-binstall` project.
 - Many `good first issue` tickets addressed, and a few repeat contributors.
 - Repo: [alsuren/cargo-quickinstall](https://github.com/alsuren/cargo-quickinstall)
 - Blog post: [2022/07/10/cargo-quickinstall](https://alsuren.github.io/2022/07/10/cargo-quickinstall)
- mijia-homie
 - Set of daemons for capturing temperature sensor data for plotting.
 - Bluetooth -> Raspberry Pi -> MQTT (homie) -> InfluxDB -> Grafana
 - Repo: [alsuren/mijia-homie](https://github.com/alsuren/mijia-homie)
 - Blog post/presentation: [2022/02/19/mijia-homie-presentation](https://alsuren.github.io/2022/02/19/mijia-homie-presentation)
- hoverkite
 - Embedded rust project, to fly a kite using a gamepad.
 - Repo: [hoverkite/hoverkite](https://github.com/hoverkite/hoverkite)
- SixDoFone
 - Tool to use a mobile phone to control position and rotation (6DoF) of a robot arm.
 - Uses WebXR in the phone's browser and python + rerun.io on the laptop.
 - Repo: [alsuren/sixdofone](https://github.com/alsuren/sixdofone)

[Opvia](#) - Senior Software Engineer - 11/2022 - 07/2024

Opvia is a no-code database (like [Notion](#)) focussed on process data management and training for regulated industries (e.g. food and drink and pharmaceutical manufacturing and research). I joined the company when we were in an 8 person office in a co-working space, and helped it grow to \$1M ARR.

- Built the ability to view **any** document/table as it was at **any** point in time, and revert to previous revisions. Massive win when selling into regulated industries.
- Re-architected tables to make them responsive at 100k rows (previously 5k). Allowed a big pharmaceutical client to use us for their production workflows.
- Championed [DevOps best practices](#) (incident response procedure, runtime feature flags, shift left on testing, automatic nightly deploys). Gave us the confidence to ship new features at pace and recover quickly, even with a growing customer base.
- Introduced pubsub system for running periodic tasks and expensive operations like PDF export, OCR and Search + RAG indexing without impacting user experience.
- Re-architected our user-facing python automation system to be more beginner-friendly and easier for us to maintain.
- Stood up the infrastructure for our next generation "Seal" app.
- Added the ability to print and scan labels from the browser, for real-world asset management.
- Buzzwords: GxP, PostgreSQL, Full Stack Typescript, React, GraphQL, Python, Pandas, Github Actions, PubSub, DataDog, GCP, Gemini.

Tably - Senior Software Engineer - 10/2021 - 07/2022

Tably is an early stage startup. The core idea is very similar to Google Sheets, but with key insights that allow it to be taken in a different direction.

- Created our data import pipeline for multiple different data sources, working closely with a junior engineer (based on Airbyte - read more at <https://tably.com/blog/connecting-people-with-their-data>).
 - Drove the selection of a frontend web framework (sycamore).
- Worked with CEO on designing direction-setting workshops.
- Mentored junior engineers on sometimes orthogonal projects, and with senior engineers on mentoring junior engineers.
- Buzzwords: Mentoring, Full Stack Rust, WebAssembly, Operational Transforms, Extract Transform Load, Airbyte, JSONSchema, AWS, Github Actions.

Red Badger - Senior Software Engineer - 10/2019 - 10/2021

Red Badger is a software consultancy, deploying product led teams into blue-chip companies.

- Worked on a TransferWise clone for Santander:
 - Refactored ledger logic, to prevent webhook retries from causing data inconsistency (Typescript helped a lot here).
 - Implemented multi-tenant support, and enabled compliance testing ready for launch.
 - Handed over key pieces of technology and ways of working to incoming supplier.
- Wrote an unsuccessful communication and file sharing platform for NHS England:
 - Mentored junior team members on Rust (sqlx + async-graphql) and Kubernetes.
 - Learned a lot about complexity, stakeholder management, and unrealistic projects.
- Wrote a successful integration for NHS Wales' covid response.
 - Learned a lot about scope reduction, and executing on short timescales with external dependencies.
- Wrote [wasmCloud](#) demo for [Cloud Native Compute Foundation conference](#):
 - Distributed NATS/NGS lattice for automatic failover + Kubernetes for scaling.
 - Multi-Cloud cluster setup across AWS and GCP, using [Pulumi](#)
 - Learned a lot about Developer Experience design, through the lens of Employee Experience design.
- Line Managed two other engineers:
 - Facilitated a career change from Test Lead to Software Engineer
 - Managed skills progression and advocated for promotions (using a "ladder" based framework)
- Buzzwords: Line Management, Full Stack Typescript, Full Stack Rust, Next.js, WebAssembly, PostgreSQL, NATS, GCP, Azure, Github Actions, Pulumi, Terraform, Kubernetes.

Conversocial - Senior Software Engineer - 12/2015 - 07/2019

Conversocial is a SaaS company, providing call-centre software for dealing with queries on social media.

- Integrated with Twitter and Facebook APIs for real-time messaging.
- Consumed from the Twitter and Facebook firehoses.
- Debugged MongoDB and RabbitMQ outages at scale.
- Brought the platform (previously delete-nothing) into GDPR compliance.
- Led a team to deal with compliance fallout from the Cambridge Analytica scandal.

- Rewrote core app frontend from knockout to React + Redux + CSSModules.
- Migrated our local development environment from Vagrant to Docker For Mac
- Buzzwords: Python, Django, MongoDB, RabbitMQ, GDPR, Webhooks, Twitter, Facebook, Docker.

Truphone - Software Engineer - 09/2012 - 03/2014

Truphone is a "small" mobile network. I worked in their labs team.

- Deployed and maintained the SIP and XMPP servers that support the Truphone app.
- Shared knowledge with others on XMPP and git.
- Applied DevOps reliability/scalability and deployability principles (puppet, monitoring and process supervision).
- Buzzwords: XMPP, SIP, VoIP, Open Standards, DevOps, Puppet, PubSub.

Collabora - Software Engineer - 09/2009 - 09/2011

Collabora is an Open Source Software Consultancy which maintains many core pieces of technology for Desktop Linux.

- Developed and maintained APIs and protocol implementations for the Telepathy VoIP/IM framework.
- Developed XMPP to SIP bridge, and debugged SIP Phone incompatibilities using WireShark.
- Wrote asynchronous networking/IPC code in C, for constrained Linux systems (Nokia N900).
- Buzzwords: Desktop Linux, Embedded Linux, VoIP, Python, C, GStreamer, GObject.

Education

University of Cambridge - Master of Engineering, Information Engineering - 2005 - 2009

- General foundation in all engineering disciplines.
- Specialised in signal processing, with a masters project in music visualisation.