Daniel Wakefield

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EXPERIENCE

Senior Software Engineer – Resi – *London, UK (Hybrid)*

DECEMBER 2021 –

Skills: Ruby on Rails, Vanilla Javascript / JQuery, Modern CSS, PostgreSQL, Metabase, Geocoding and scheduling, Stripe, On-call Engineer.

Residential Architecture workflow tool, CRM & marketplace for builders / contractors / other trade services; 3D configuration of simple extension designs.

- Mentoring and line management for 1 junior engineer
- Work directly with the CTO in all technical areas. Provided full cover during extended absences.
- Prep for fundraising rounds including Financial, revenue and marketing data analysis & forecasting; upgrades to accrual accounting system; Liaising and remediating issues with external pen-testers for cyber security due diligence report.
- Led live upgrades at all levels of the system including Operating system, Database, Payment Providers checkout flow (Stripe), Ruby and Rails versions without any product downtime impact.
- Implementation of third party escrow payment collection and disbursement.
- Implementation of Frontend component design system.
- Oncall engineer driving improvements in the monitoring and logging setup; From rails defaults to fully structured logs ingested into LogDNA/Mezmo & metrics into NewRelic with alerting built to reduce volume to such our 2 on call engineers could comfortably handle the permanent rotation.

Senior Software Engineer – Zencargo – *London, UK (Remote)*

AUGUST 2021 – DECEMBER 2021

Skills: Ruby on Rails, Rails EventStore (Event sourcing), PostgreSQL, GraphQL, React, Typescript, Tailwind CSS

Digital freight forwarding, Logistics, and supply chain management

- Extended the GraphQL API with both, replacements for legacy REST endpoints and fields / mutations to support new features.
- Diagnosed PostgreSQL performance issues and added suitable indexes & locks to fix race conditions.
- Planned engineering wide social event.
- Improved debug tooling for ruby and event sourcing code.

Software Engineer – GoCardless – *London, UK*

FEBRUARY 2017 – JULY 2021

Skills: Ruby, Rails, PostgreSQL, GCP, GCS, PubSub, ElasticSearch, React, Javascript, GoLang, State machines, Incident response & Post mortem lead, Technical interviewer, Implementation and architecture proposals, Prometheus, Grafana

Building a developer friendly API, like Stripe, over bank payments schemes around the world.

- Maintaining and contributing to companies open source projects; [Statesman](#) & Client Libraries in [Ruby](#), [Python](#), [PHP](#) etc
- Fixing critical incidents and follow up post mortems; tracked common incident reasons to help the team advocate for resources to correct the internal issues.
- Built extensible admin tooling to reduce TOIL; Used >30k times since inception each replacing a ticket. Security focused approach with fine-grained user permissions and SIEM compatible audit trails.
- **Payments team (before July 2019)**: Handling and securing technical interaction with banks, financial and flow of funds control, batch process improvements via code architecture and query / DB optimisations, implementation of VAT, Foreign exchange and pricing / billing changes (est. impacts per month of respectively £300k, 80k, 200k), fund segregation for Brexit banking compliance.
- **Enterprise merchant experience team**: API performance improvements, maintenance of API Documentation, feature implementation for large and complex organisations, client library and JSON-API schema maintenance, Implementing observability with Prometheus and Grafana to find UX pain points, Subscription timing logic management & implementation of pause/resume functions to avoid merchant churn during COVID; used for est. 146k subscriptions by 16k merchants, Addition of TOTP 2FA with uptake campaign driving to 14% usage.
- Meeting with sales prospects as an integration/solution engineer to help design and debug their integration.

Developer – Depoel Software - *Knutsford, UK*

JUNE 2016 – FEBRUARY 2017

Skills: Golang, Python, MySQL, Jenkins, petl, PHP

Migrating a financial application from a PHP monolith to Go microservices. Focused on compliance and invoicing services, ETL of legacy data and backtesting calculations.

- Created and maintained scripts and automated tooling around high volume data ETL's in python using petl.
- One of two Golang experts in the development team of 18. Provided training tailored to the developers previously known languages and seniority / experience.

Software Engineer Intern – Hewlett Packard - *Galway, Ireland*

JULY 2014 – AUGUST 2015

Skills: Python, Bash, Openstack, Icinga, memcached

Worked on Openstack Swift (Open source version of S3) and Internal monitoring and deployment projects. Part of a distributed team with members in the UK, Ireland and the US.

- Replaced legacy Bash monitoring scripts with a Python based solution reducing diagnostic runtimes, from 5 minutes to 2 seconds, and improving the Time To Fix SLI and its linked SLO's.
- Sys-admin for the internal deployment of Swift. Duties included disk sector repair, shard management, resolving replication failures & maintaining the operational tasks runbook.
- Open source work in the [Openstack](#) community with features, bugfixes and test coverage for the python-swiftclient project. All Python code was cross compatible from 2.6 to 3.4.

EDUCATION

Computer Science with Artificial Intelligence, BSc – Aberystwyth University - *Wales*

- **Dissertation:** dash shell clone in GoLang. Implemented with Pratt parsers and a coroutine style lexer.