Robert Wollner

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**PROFILE**

I am a graduate physicist and technical expert, practiced in delivering the creation and growth of projects, systems and teams. Having designed, built, implemented and documented a variety of highly technical projects, I’m experienced turning business needs or ideas into a reality, leveraging a high competence in a variety of languages and technologies (see languages / technologies section).

**KEY ACCOMPLISHMENTS**

* Migrated Moodfield’s server stack onto an Azure cloud from on-site, delivering a cost reduction of 50% and enabling the transition to serverless and micro-architectured solutions, reducing management overhead significantly.
* Created a suite of self-healing python micro-services, built onto a debian Linux OS, providing functionality for the smart lockers. This enabled remote monitoring and oversight of the installations where before engineers would have to be sent out to solve the issues, leading to a profitability increase of each installation of 15% via reduction in visits alone, along with numerous security and customer experience improvements, including pre-payment via credit card.
* Created, coded and standardised Moodfield’s DevOps capabilities on the cloud environment. The CI/CD pipelines implemented having built and standardised the infrastructure templates massively reduced iteration and update cycle time.
* Coded and launched Moodfield’s customer facing website, including custom payment flows. This enabled seamless customer sign-up and the creation of membership schemes, along with pay as you go and pre-booking systems.
* Broke Moodfield’s PHP monolithic website into a series of microservices, enabling faster iteration on design, plus the delegation of many parts of the service into semi-autonomous teams.

**WORK EXPERIENCE**

**Aug 13 - May 19** *Moodfield Ltd. – Physical smart security systems*

Technical Lead

Created the technical department and team, built the technical stacks and systems from the ground up.

*Key responsibilities and projects:*

* + - * Designed, created, deployed and managed a suite of geographically disparate servers to control the smart lockers. Designed the Python based micro-architecture and config management system, along with the cloud APIs required for the servers to function. (**Python / Bash / Salt stack**)
      * Implemented and coded DevOps and ‘infrastructure as code’ functionality within the technical team. (Kubernetes / Pipelines / Terraform
      * Designed, built and Launched the company’s website, including ecommerce. Created and managed the team that took ownership for further development. (**PHP / SQL / JS**)
      * Designed and created the company’s data backend, including database architecture, backups and DR. (**MySQL / Bash /** **Azure**)
      * Migrated the web stack, databases and other company infrastructure onto the cloud. (**Azure / GCE**)
      * Set up processes and systems for Linux server administration and hardening, along with the email servers and business automations. (**Bash / Nginx / Exim / Python**)

**Aug 12 - Aug 13** *Moodfield Ltd. – Smart locker systems*

Developer

Building the companies first websites, infrastructure and internal business tooling

*Key responsibilities:*

* + - * Website creation (**PHP / JS / SQL / HTML / CSS**)
      * Business process automation (**Python**)
      * Design co-ordination

**Jun 10 - Sep 11** *HSBC – Global Markets*

Assistant and small systems programmer (**VBA / Excel**)

**STUDIES / TRAINING**

**Sep 08- Jun 12** *The University of Manchester*

BSc, Physics

**PROFICIENCIES / LANGUAGES / TECHNOLOGIES**

* Python
* SQL
* C/C++
* PHP
* HTML/CSS
* Bash
* JS
* Azure
* GCE
* AWS
* MySQL
* Kubernetes
* Terraform
* VBA
* Nginx
* Salt stack
* Debian / Linux
* Exim
* Stunnel
* Cryptography
* Hardware electronics
* Firewalls / Iptables / UFW
* Server config / networking
* DBA
* Block device / Filesystem
* GIT
* Docker
* Kubernetes
* Microservices architecture
* H264 / Media encoding
* Payment / PCI
* Disaster recovery
* Excel / Office suite

**PATENTS**

Patent GB2515077 - http://bit.ly/rw\_locker\_patent - Locker access management system.

**COMPETITION WINS**

*Seedhack & Seed Camp – 1st / Hack the space at Tate Modern – 2nd / Music tech fest – wearables prize / Hack the smart City – £1000 prize*