

MARK JONES

Definition [mɑ:k dʒəʊnz]: a well-motivated, team-driven software developer who thrives on challenging opportunities. Also has some domain knowledge of batteries.

PERSONAL INFORMATION

<i>Nationality</i>	United Kingdom
<i>Residency</i>	Scotland, United Kingdom
<i>Email</i>	human@markjon.es
<i>LinkedIn</i>	www.linkedin.com/in/-markjones-/
<i>Website</i>	www.markjon.es
<i>Interests</i>	Gym · Video Games · D&D Software Tinkering

SKILLS

<i>Languages</i>	Python, SQL (MySQL/MariaDB), Web (HTML/JS/CSS)
<i>Frameworks</i>	Flask, SQLAlchemy, Bootstrap, Alembic
<i>Technologies</i>	Git, GitLab CI/CD, Ansible, Raspberry Pi, Ubiquiti, FreeCAD

WORK EXPERIENCE

*Custom &
Contract Power
Solutions (CCPS)*

2017–Present Company Director & Software Developer

- **Tech Stack:** Python, Flask, SQLAlchemy, MariaDB, Ansible, Linux.
- Architected and developed a Linux-based, Python stack battery monitoring system (BMS) for lead-acid stationary batteries. This product took the company from bespoke contracting to seven-figure turnover.
- Project managed software contractors to complete specialised work; delivered all critical-path tasks on time and on budget.
- Reviewed and implemented software compliance requirements (such as NIST and IEEE 1686-2013/22).
- Used Ansible to manage over a thousand production monitors, improving playbooks to enable non-software staff to use them in RMA contexts.
- Recruited and managed a small software team, supporting their ongoing professional development.
- Led research projects and collaborated with Heriot-Watt University, applying k-nearest-neighbour and support vector machines, to investigate battery state of health and risk factors.
- Trained various staff members to operate 3D printers independently during early production, achieving 99% uptime (24/7) for 23 months.
- Provided out-of-hours technical escalation support for critical infrastructure customers diagnosing software, hardware, and alarm issues via third party support teams.

- Developed post-assembly test software to confirm manufacturing correctness.
- Travelled internationally to support on-site installations and represent the company at conferences.

2010–Present **Contracting: Software Developer**

Worked remotely with several clients across the globe, with end-clients ranging from local government to some of the largest multinational corporations in the world.

HyFes

2015-2017

Battery/fuel hybrid Thames clippers for emissions reduction

- **Tech Stack:** Python, Flask, HTML/CSS/JS stack.
- Developed high-level software for a backup battery monitoring system that would later become the Vigilant.
- Represented the client in multi-company meetings across the UK.
- Invited to join CCPS as a Director following project success.

StorQube

2015-2017

Domestic energy trading platform

- **Tech Stack:** Python, Linux.
- Implemented an interface between the Yuasa lithium-ion battery management system and customer cloud assets.
- Produced a formal requirements specification, engaging technical and non-technical stakeholders to define and validate project scope.

VCharge

2015-2018

Optimising grid assets and peak shaving

- **Tech Stack:** Python, Linux.
- Developed a Python interface for the Kestrel control panel for micro-hydro generators to integrate with customer SCADA systems.
- Embedded with the VCharge development team to contribute incremental improvements across their product portfolio.
- Managed the networking for the largest domestic battery installation in the UK.
- OVO later acquired the company and its products.

THR

2012-2019

Corrosion monitoring in post-stressed steel cables

- **Tech Stack:** C, Python, Django, HTML/CSS/JS, Linux.
- Developed a lightweight corrosion resistance monitor for hydro-electric dams in under three months.
- Delivered full-stack development on a C/HTML MMU-less embedded Linux OS.
- Interfaced with RS-485 in an electrically noisy environment.
- Travelled to Tasmania to oversee installation of the product.
- Implemented Django-based web overview software for analysing historical data.
- Developed a CRBasic interface for the second project phase to integrate with customer SCADA systems.

RokTel
2012-Present

Geotechnical non-destructive testing

- **Tech Stack:** Python, Django, MySQL, C#/, Windows Mobile, .NET CF 3.5 National Instruments, Linux.
- Integrated National Instruments DAQ and collection software into the second generation of the product.
- Implemented a Django-based portal for engineers to perform mass qualitative analysis (RokWeb).
- Migrated the third generation of the product to a ruggedised C#/.NET CF 3.5 Windows Mobile platform.
- Implemented quantitative analysis for the system, providing near real-time feedback on anchor quality.
- Worked on-site across the world to support development.
- Travelled to Vienna to deliver a full-day technical training programme in English, enabling customer staff to become internal product experts.

InSite
2010-2012

Bespoke battery monitoring

- **Tech Stack:** C, real-time Linux OS (Lemonix), SQLite, HTML/CSS/JS.
- Developed a monolithic battery monitoring solution to customer specifications on Korean (SystemBase) hardware.
- Created a C-based web templating system for the project.

Europartnerships
2009

UK market analysis

- Provided Europartnerships with insight into the UK gaming sector to build the case for expanding end-customer operations (CLARA) to the UK.
- Received an invitation to join the end-client's sales team following the engagement.

Halcrow Group
2009

Data entry automation

- Developed a Jython program to automate data entry for the v1 RokTel, achieving a 192× efficiency improvement.

Various
2009-Present

Linux server administration

- Administered Linux servers and delivered bespoke services for various smaller clients, including web, telemetry, and monitoring solutions.
- Used monitoring tools such as Canonical Landscape and M/Monit.
- Platforms included AWS, DigitalOcean, self-hosted, and VPS hosting.

Accio

2018-2020 Lead Software Developer / Technical Director

- **Tech Stack:** Mikrotik, Ubiquiti, Python, AWS, Flask, HTML/CSS/JS.
- Designed, developed, and led development of a Wi-Fi advertising solution — still serving millions of users every year.
- Sold the IP to the primary customer.

EDUCATION

2005–2009 University of Edinburgh, Scotland

Honours project: Mood Profiling Through Textual Analysis

*Computer Science
& Physics (Hons)*