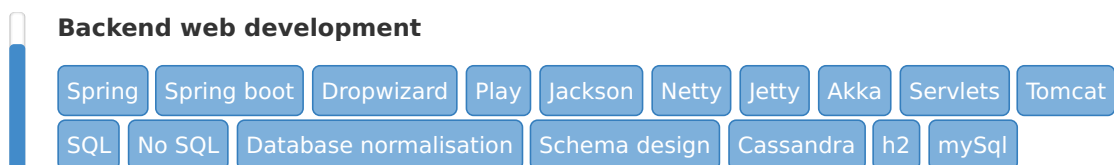# Sam O'Brien

INFO

Principal full-stack engineer with product ownership & team lead responsibilities
focused on leading by example, coordination & continuous code integration, forward thinking
design & innovation, best practices and continuous improvement following the Kaizen principle

SKILLS

Backend web development

Spring | Spring boot | Dropwizard | Play | Jackson | Netty | Jetty | Akka | Servlets | Tomcat
SQL | No SQL | Database normalisation | Schema design | Cassandra | h2 | mySql

EMPLOYMENT

Senior software engineer, VSware / Visma

2015-07 — Present │ Agile PM java maven sbt saml oauth spring play dropwizard spring boot scala kotlin ruby chef ops sql mysql
cassandra activator akka domain driven design leadership stakeholder management

Senior full-stack engineer with product ownership, team lead & development responsibilities.
This role includes overseas travel to meet with 3rd party services for API negotiations, writing
and managing stories from requirements to completion, managing development resources and
several solo-developed revenue generating micro-services. I also pushed for and introduced
effective data validation patterns: On the JS side, REST API validation and tightly constrained
DB cardinality leading to very high quality data and natural prevention of bad states.

- Solo-developer of a revenue generating micro-service based integration with Microsoft
  Active Directory and Office 365 with yearly subscription fee of 1-2k per customer
  depending on features
- Lead developer & Product owner of a major piece of employee planning and cost
  management software developed with a team of 5, managing dynamic requirements
  changes. Featuring strict validation, natural cardinality, persistent programming patterns,
  caching and completely validated DTOs in Spring, JSP, Rivets and MySql
- Product owner of all 3rd party integrations including Oauth & Saml 2.0 authenticated
  single sign on, and data importation and marshalling
- Pushed new validation and development patterns focused on the Kaizen principle of
  continuous improvement which were widely adopted by the team

Software Engineer, Logentries

2014-05 — 2015-07 │ Agile java maven sbt oauth dropwizard netty spring boot scala kotlin ruby chef ops sql mysql cassandra
activator akka domain driven design leadership stakeholder management

Developer focused on backend services including developing the in-house query language,
metrics retrieval, validated REST API exposure etc. in an Agile environment

- Developed a parser and query language to access the log data API
- Produced a high quality validated and acceptance tested externally exposed API

Draughtsman & Administration, Flanagan Architects

2012-02 — 2012-08

Contract for project in London, draughtsman, coordination and administration responsibilities.

Design team lead, Farm from a Box

2011-02 — 2012-01 │ Design leadership administration

Coordinating a team of 7 volunteers to produce an initial set of designs for a modular farming solution for disaster relief.

Draughtsman & Administration, 3D Architects

2010-07 — 2011-01

Work included producing planning permission and other legal applications, design and technical documentation to strict legal & design requirements.

Draughtsman & Administration, Flanagan Architects

2007-06 — 2008-06

Work included producing planning permission and other legal applications, design and technical documentation to strict legal & design requirements.

⭐ PROJECTS

Contributor, RE2 for java

java C++ JNI RE2 REGEX

Implemented named capture groups as an extension of indexed capture groups in the library to facilitate same in Logentries query language.

trade-processor

secret side project

🎓 EDUCATION

M.Sc Computer Science, University College Dublin

2012-09 — 2014-01 │ Java C C++ Ruby Database design Software Engineering Natural language processing Search aggregation & N-Dimensional clustering

1st class Honors degree in Computer Science.

B.Sc Architectural Science, University College Dublin

2006-09 — 2010-07