

# Sam O'Brien



## INFO

**Full-stack engineer with product ownership and team lead responsibilities** focused on leading by example, active co-ordination and continuous integration, forward thinking design and innovation, best practices and continuous improvement following the Kaizen principle



## SKILLS

### Backend web development

Spring Spring boot Spring beans Dropwizard Play Jackson Netty Jetty Akka Servlets  
Tomcat SQL No SQL Database normalisation Schema design Natural cardinality Cassandra h2  
mySql Guice IOC AOP JNI Java JVM

### Front web development

Vue.js PEG.js .jsp bower yarn npm node.js html css bootstrap

### Ops

Jenkins bash midnight commander ssh apache benchmark maven database migration Liquibase  
Flyway Heroku AWS Linux Chef SQS



## 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 and 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 and 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 and 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 and 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 and Administration, 3D Architects**

2010-07 — 2011-01

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

**Draughtsman and Administration, Flanagan Architects**

2007-06 — 2008-06

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



## PROJECTS

**Contributor, RE2 for java**

2014-01 — 2015-01 | 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.

**Creator, trade-processor**

2015-01 — 2015-01 | java Dropwizard web sockets Flyway Heroku MySql

Heroku deployable Dropwizard application using db migration, web-sockets, rate-limiting and meta-data analysis.

**Creator, [private repo] Full-stack SAAS messaging and NLP project**

2017-03 — Present | java Spring Vue.js Liquibase Cassandra Play

Full stack SAAS project using Spring Boot, Play, Cassandra, MySql, Liquibase, jsp and Vue.js



## 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 and N-Dimensional clustering

1st class Honors degree in Computer Science. Recipient of commendation from the Dean of the course.

**B.Sc Architectural Science, University College Dublin**

2006-09 — 2010-07



## REFERENCES

**Chris Mowforth, Senior Engineer - Rapid 7 | [chris@mowforth.com](mailto:chris@mowforth.com)**

**Kenneth Morrison, Principal - Morrison Consulting | [kmorrison@morrisonconsulting.com](mailto:kmorrison@morrisonconsulting.com)**