

# Sam O'Brien

## Software Engineer

21 Block A, Smithfield Market, D7, Dublin, Dublin Ireland

🔗 <https://github.com/samjamesobrien>    ✉ [samjamesobrien@gmail.com](mailto:samjamesobrien@gmail.com)

in [Sam O'Brien](#)

**\*\*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

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### Backend web development

advanced

spring | spring boot | spring beans |  
dropwizard | play | jackson | netty | jetty |  
akka | jaxb | servlets | rest | soap | oauth |  
api validation | tomcat | sql | no sql |  
database normalisation | schema design |  
natural cardinality | cassandra | h2 |  
mysql | guice | ioc | aop | jni | java | jvm

### Front web development

Advanced

vue.js | peg.js | ajax | jquery | jsp | gulp |  
yarn | npm | node.js | html | css |  
bootstrap

### Ops

intermediate

jenkins | bash | midnight commander |  
ssh | apache benchmark | maven |  
database migration | liquibase | flyway |  
heroku | aws | linux | chef | sqs

## WORK EXPERIENCE

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### Senior software engineer at VSware / Visma July 2015 - Current

<https://www.visma.com/>

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 at Logentries May 2014 - July 2015**

<https://logentries.com/>

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 at Flanagan Architects**

February 2012 - August 2012

<http://www.flanaganarchitects.ie/>

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

## **Design team lead at Farm from a Box February 2011 - January 2012**

<http://www.farmfromabox.com/>

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

## **Draughtsman and Administration at 3D Architects**

July 2010 - January 2011

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

## **Draughtsman and Administration at Flanagan Architects**

June 2007 - June 2008

<http://www.flanaganarchitects.ie/>

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

## PROJECTS

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### RE2 for java September 2014 - January 2015

<https://github.com/rapid7/re2-java>

Skills acquired: `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 June 2015 - June 2015

[https://github.com/samjamesobrien/trade\\_processor](https://github.com/samjamesobrien/trade_processor)

Skills acquired: `java` | `dropwizard` | `web sockets` | `flyway` | `heroku` | `mysql`

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

### [private repo] Full-stack SAAS messaging and NLP project

March 2017 - Current

Skills acquired: `java` | `spring` | `vue.js` | `liquibase` | `cassandra` | `play` | `yarn` | `gulp` | `npm`

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

## EDUCATION

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### Masters Computer Science at University College Dublin

2012 - 2014

Major courses: `java` | `c` | `c++` | `ruby` | `web design` | `database design` | `software engineering` | `natural language processing` | `search aggregation and n-dimensional clustering`

**Grade:** 4.0

### Bachelors Architectural science at University College

Dublin

2006 - 2010

## LANGUAGES

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English

## REFERENCES

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“ Senior Engineer - Rapid 7 | [chris@mowforth.com](mailto:chris@mowforth.com) ”

**Chris Mowforth**

“ Principal - Morrison Consulting | [kmorrison@morrisonconsulting.com](mailto:kmorrison@morrisonconsulting.com) ”

**Kenneth Morrison**