

SAM O'BRIEN

SOFTWARE ENGINEER

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https://github.com/sanjamesobrien

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

FRONT WEB DEVELOPMENT

SPRING SPRING BOOT SPRING BEANS DROPWIZARD PLAY JACKSON NETTY JETTY AKKA SERVLETS TOMCAT SOL NO SQL DATABASE NORMALISATION SCHEMA DESIGN NATURAL CARDINALITY CASSANDRA H2 MYSQL GUICE IOC AOP JNI JAVA JVM JENKINS BASH MIDNIGHT COMMANDER SSH APACHE BENCHMARK OPS MAVEN DATABASE MIGRATION LIQUIBASE FLYWAY HEROKU AWS LINUX CHEF SQS

EMPLOYMENT

Senior software engineer, VMware / Viamo

2015-07 – Present

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 auto-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 data.

- Solo-developer of a revenue generating micro-service based integration with Microsoft Active Directory and Office 365 with yearly subscription 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, Realizing strict validation, natural cardinality, persistent programming patterns, caching and completely validated DTOs in Spring, JSP, Fivels 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

Agile P3R Java Maven SBT SAML OAuth Spring Play Dropwizard Spring Boot Scala Kotlin Ruby Chef Ops S3 MySQL Cassandra Activator Akka Domain Driven Design Leadership Stakeholder management

Software Engineer, Logentrix

2014-05 – 2015-07

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

Agile Java Maven SBT OAuth Dropwizard Netty Spring Boot Scala Kotlin Ruby Chef Ops S3 MySQL Cassandra Activator Akka Domain Driven Design Leadership Stakeholder management

Draughtsman and Administration, Flanagan Architects

2012-02 – 2012-08

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

Design team lead, Farm from a Box

2011-02 – 2012-01

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

Design leadership administration

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

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

Java C++ JNI RE2 REGEX

Creator, trade-greener

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

Java Dropwizard web-sockets Flyway Heroku MySQL

Creator, Full-stack SAAS messaging and NLP project

Full stack SAAS project using Spring Boot, Play, Cassandra, MySQL, Liquibase, JSP and Vue.js

Java Spring Vue.js Liquibase Cassandra Play

EDUCATION

M.Sc Computer Science, University College Dublin

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

2012-09 – 2014-01

Java C C++ Ruby Database design Software Engineering Natural language processing Search aggregation and N-Dimensional clustering

B.Sc Architectural Science, University College Dublin

2006-09 – 2010-07

REFERENCES

Chris Mowforth

Kenneth Morrison

Damian Dalton