DENIS MURPHY

Co. Kerry, Ireland

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OVERVIEW

Experienced software engineer in various languages and platforms, passionate about learning new technologies. Proven track record of delivering reliable software and taking on new challenges.

WORK EXPERIENCE

Dairymaster, Co. Kerry   May 2016 - Current
Software Engineer

· Designed new microservices landscape for DairyVue360 platform, implementing a scalable and reliable cloud infrastructure using AWS with Kubernetes and Terraform.
· Established and managed a monitoring stack with alerting using Prometheus, Grafana, and AWS CloudWatch.
· Implemented and managed CI/CD pipelines using GitLab, including automated API smoke tests and performance tests.
· Conducted weekly blue team security operations on AWS infrastructure, proactively mitigating security risks.
· Led end-to-end development of mission-critical farm management solutions, including DM LiveVue (real-time touchscreen app), SwiftCool APIs (remote milk tank monitoring), DataSync (bi-directional cloud synchronization), and DairyVue 360 iOS app (SwiftUI), significantly enhancing operational efficiency and modernizing legacy systems.

Quest Computing, Dublin   November 2012 – May 2016
Software Engineer

· Monitoring and maintaining a large public sector production environment in a government data center.
· Migrated legacy Apache Struts and JavaEE systems to Spring Boot, enhancing system performance and maintainability.
· Refactored large PL/SQL packages into modern APIs, adopting a service-oriented architecture.
· Automated log monitoring on HSE production applications.

UTS Insearch, Sydney   April 2015 – January 2016
Independent Contractor

· Designed and developed a mobile-first website aimed at the Chinese-speaking market in China, Taiwan, and Hong Kong, increasing international student engagement.

BSB (Business Solutions Builders), Dublin   January 2011 – August 2012
Junior Software Engineer

· Contributed to the Soliam Team by adding new functionality to Back Office, Front Office, and in-house data warehouse applications.
· Developed and refactored solutions for clients such as AXA, BNP Paribas, Societe Generale, and Ethias, improving system efficiency and reliability.

Microsoft, Dublin   March 2010 – May 2010
Intern

· Interned in the Sales, Marketing, and Services Group (SMSG) for EMEA, attending Microsoft conferences, promoting Microsoft technologies on college campuses, and receiving training on Microsoft stack, including Azure, .Net Framework, and Team Foundation Server.

Microsystems, Chicago, IL   May 2007 - November 2007
Intern

· Worked on DocXtools and D3, focusing on converting Microsoft Office Documents to the Microsoft Open XML format.
· Created XSLT templates for parsing documents, which were later integrated into production systems.

TECH STACK

Cloud: Kubernetes, ECS, Docker, IAM, Terraform, DynamoDB, SQS, SNS, RDS, CloudWatch
Programming Languages: *Java, C, Kotlin, Python, TypeScript, Swift, Go, Rust, Objective-C*
Frameworks: Spring Boot 3,.NET Aspire, SwiftUI, Angular, Bootstrap
Other Technologies: Linux, MySQL, MQTT, Protocol Buffers, Redis, Prometheus, Grafana, GitLab CI/CD

EDUCATION AND CERTIFICATION

MongoDB for Java Developers   *Oct 2013 – Dec 2013*
MongoDB, Document-Oriented Database, JSON, BSON

Functional Programming in Scala   *Sep 2013 – Nov 2013*
Functional Programming, Pattern Matching, Lazy Evaluation, Sbt

SpringSource Certified Spring Professional   *Jan 2013 – Jul 2013*
Spring Boot, Spring MVC, Spring Security, Spring Data

Oracle Certified Professional Java Programmer (SCJP)   *Oct 2010 – Jan 2011*
Java, JavaEE

BSc (Hons) in Computing with Multimedia   *Sep 2005 – Jun 2010*
Algorithms, Design Patterns, Data Structures, OOAD, Compilers

REFEREES

Edmond Harty: Vice-President Engineers Ireland, Adjunct Full Professor UCD.

Adrian Hynes: Director Cloud Engineering, Fidelity Investments.

Tom O'Sullivan: CEO, Microsystems, Chicago, IL.

Ed Sheldon: Lecturer in Computer Science, Munster Technological University.

References available upon request.