

Dermot Duncan

Perfection is a road, not a destination
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EDUCATION

NUIG

M.Sc IN SOFTWARE DEV

Grad. Sep 2010 | Galway, Ireland

HETAC

H. DIP IN WEB TECHNOLOGY

Grad. Aug 2008 | Galway, Ireland

NUIG

H. DIP IN SYSTEMS ANALYSIS

Grad. May 2007 | Galway, Ireland

NUIG

B.ENG IN ELEC AND COMPUTER

Grad. May 2006 | Galway, Ireland

LINKS

Github:// [coderturtle](#) | [dermdunc](#)

LinkedIn:// [dermotduncan](#)

CERTIFICATIONS

AMAZON WEB SERVICES

Cloud Practitioner

Developer - Associate

Solutions Architect - Associate

SysOps Administrator - Associate

DevOps - Professional

Solutions Architect - Professional

AWARDS

STARTUP WEEKEND

Startup Weekend Boston - Blockchain

Awarded: **3rd Place**

ANDROID WEAR HACKATHON

Google Developer Group

Awarded: **1st Place**

EMOTION LAB '16

Affectiva

Awarded: **Best User Experience**

SIDE PROJECTS

BLOCKPAW

[blockpaw.com](#)

Hyperledger Blockchain

BALOR TECH

[balortech.com](#)

Android Application

Arduino NFC

EXPERIENCE

FIDELITY INVESTMENTS | SEPT 2007 - AUG 2018

APS | Director of Software Architecture | Dec 2016 - Aug 2018

- Leading the Cloud Architect team, I helped define our orgs cloud strategy as well as guide and advise the use of AWS.
- By implementing Infrastructure as Code we developed a pattern for shared, reusable infrastructure greatly reducing time and cost of subsequent projects.
- Created live coding workshops on different cloud technologies including serverless, **Alexa** and ML, building cloud expertise across the org.
- As tech owner of the labs group, I led a team of 3 to design experiments to define ROIs for ideas and build MVPs to quickly pilot and evaluate these ideas, saving the firm 400k+ per project helping to drive our product timelines.

XTRAC | Principal Software Architect | Jun 2014 - Dec 2016

- Architected a migration from a full stack Java/Spring REST API to server less NodeJS micro services leveraging AWS API Gateway, Lambda, and SQS, greatly improving support for failed transactions.
- Re-architected an existing file sharing platform (**Fidsafe**) so it could scale from 10k active users to be able to cost effectively support 10 million+ users.
- Using 12 factor principals it leveraged S3, Cloudformation, Cloudfront, ECS, Step Functions, API Gateway and Aurora to build a highly available, distributed and componentised system, with re-use for future projects.
- Defined CD pipelines for Fidsafe to automate operations, security and compliance checks allowing us to release daily vs the previous limitation of monthly releases. Also cut costs by over 400k in the first year.

XTRAC | Senior Software Engineer | Dec 2012 - Jun 2014

- As a member of the labs team I was charged with driving innovation. Primarily we worked individually on 8 or 12 week POCs in varying technologies trying to identify areas of investment which we felt would drive the future of the company with 1 in 5 projects being funded.
- One successful POC was **XTRAC Connect**. I designed and built a java integration engine built natively on AWS using Beanstalk, S3 and DynamoDB, to act as a building block for our digitisation of services strategy.
- Automated environment creation in AWS using Cloudformation, custom ruby scripts and Jenkins pipelines allowing a single resource to maintain and operate the platform.
- Wrote a smart wizard webapp for **cavendish pensions** to digitise a previous 28 page pdf for performing changes to pensions. Written in html5, php, javascript, jquery and bootstrap it cut processing time from over a week to under a day.

FIMT Fixed Income | Associate - Snr Software Engineer | Oct 2008 - Dec 2012

- Modernized the 10+ year old internal research publishing and retrieval system. Built as an add-in to Microsoft Word 2007, used the .Net 3.5 framework and written in C-sharp. Designed using the MVVM pattern and incorporated Microsoft's WPF capabilities, including XAML, and WCF protocol layers.
- Developed a financial reporting tool in .net 2.0, written in C-sharp and designed using an MVP pattern, allowing analysts to consolidate data from different systems and create research reports in minutes, which previously took weeks.
- Created a support webapp in Ruby on Rails to automate common support tasks and issues so they could be handled by L1 support.

Fidelity Ireland | Associate Software Engineer | Sept 2007 - Oct 2008

- Developed a decision support system to simplify investment choices for PMs. Written in Flex but architected to allow different components to be standalone or integrated into other applications.