

Barry Kidney

MSc Computer Science

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ABOUT ME

Recently completed an MSc (conversion) in computer science at UCD, with a strong focus on Machine learning and Data Analytics. My previous field was Architecture where I gained over ten years' experience working in cities including: Dublin, Melbourne and Toronto. I have excellent communication skills and extensive experience working as part of a team delivering to tight deadlines, I am focused, resourceful and self-motivated.

EDUCATION (3rd LEVEL)

University College Dublin, IE

MSc Computer Science (Sept 2015 – June 2017)

University of Lincoln, UK

BArch. (Sept 2003 – June 2005)

BA (hons) Architecture (Sept 1999 - June 2003)

PROFESSIONAL CERTIFICATES

AWS Certified Developer - Associate (Sept 2017)

AWS Solutions Architect - Associate (Sept 2017)

ITIL Foundation (Oct 2017)

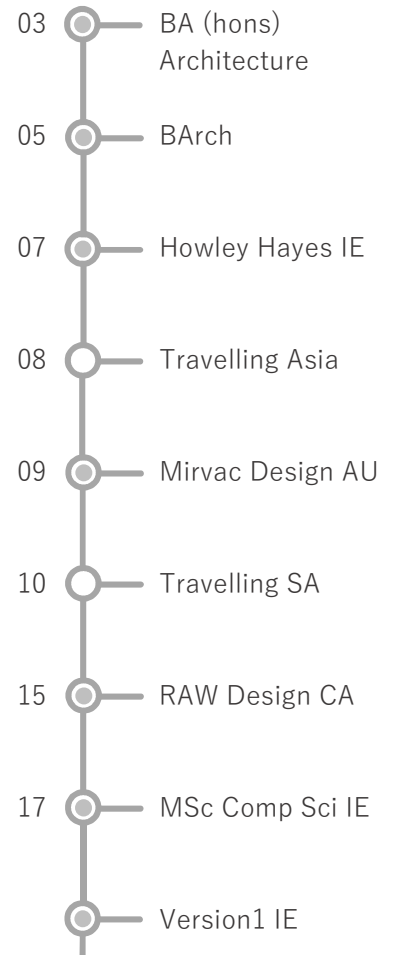
WORK EXPERIENCE

- Graduate Architect at **Howley, Hayes Architects** in Dublin from Nov 2005 to April 2007.
- Architectural Assistant at **Mirvac Design** in Melbourne from Feb 2008 to Feb 2009, worked as part of a team generating technical drawing for large scale developments.
- Project Architect at **RAW Design** in Toronto from Feb 2011 to Sept 2015 where I managed multiple developments, managed the in house IT system and developed systems to optimise the software and workflows to better suit needs of the firm.
- Associate Consultant at **Version1** in Dublin (current position) where I have gained experience developing in SharePoint, Azure, Command Line, Selenium & JavaScript.

VOLUNTEERING / INTERESTS

I have travelled extensively and spent a number of months volunteering on an elephant sanctuary, organic farm, house building (Thailand) and an animal sanctuary (Bolivia), I currently volunteer bi-weekly at the coder dojo at the Web Summit offices in Dublin. I very much enjoy sailing, archery, guitar, reading and spending time with family.

TIMELINE



PROFESSIONAL SKILLS

| | |
|---------------|-------|
| Java | ●●●○○ |
| Python | ●●●●○ |
| MySQL | ●●●○○ |
| HTML&CSS | ●●●●○ |
| JavaScript | ●●●○○ |
| Django | ●●○○○ |
| PHP | ●●●○○ |
| Android | ●●●●○ |
| Matlab/Octave | ●●●○○ |

REFEREES

Available on request.

COMMERCIAL PROJECTS

Android/Full Stack Web Development

- Redevelopment of the Version 1 Corporate Social Responsibility initiative. A SharePoint based solution to identify and eliminate fraudulent votes (vote farms) and to distinguish between (and appropriately weight) votes cast by staff and non-staff members. *Technologies: SharePoint, JavaScript, Selenium, Python.*
 - Development of an automated tiered backup solution for Azure storage containers. *Technologies: Microsoft Azure, Windows PowerShell scripts, Azure (PaaS) WebApps & WebJobs.*
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UNIVERSITY PROJECTS

Android/Full Stack Web Development

- Android app to scan book barcodes using the device camera, decipher the characters and query an online API. The results are then parsed, stored and accessed via a library function. *Technologies: Tesseract OCR Tool, SQLite and Google Books APIs.*
- Web App to predict the availability of Dublin Bikes. Data is continuously collected from the Dublin Bikes API, analysed and the results are superimposed on an embedded Google map. *Technologies: Google maps & API.*
- Web App to predict the utilisation levels of university classrooms by analysing connection data from wireless access points. *Technologies: LAMP stack, Django, Python, Logistical regression.*

Machine Learning/Data Analytics

- Premier League predictor, logistical regression performed on historic data to generate predictions of home win yes/no on upcoming games using Python, achieved a 76% accuracy.
- Weighted KNN from base principles programmed in Python, implementing Cosine similarity.
- Neural network to predict the value of handwritten digits, programmed from base principles in Octave implementing Gradient Decent and Backwards Propagation.
- Recommender System to suggest movies to users based on analysis of similar users ratings programmed from base principles in Python implementing Pearson's and Resnick's formulas.

Demonstrator

- Networks and Internet Systems.
 - Relational Databases Module.
 - Collective Intelligence (recommender systems).
 - Practical Android Development.
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PERSONAL PROJECTS

- Wireless payment Android app, developed for Ulster Bank Hackathon (Runners-up in Business Enablement category), allows device to device money transfer and management by utilizing upcoming bank APIs. *Technologies: NFC functions SQLite and Bluebank API.*
 - Personal website illustrating my professional skills and personal interests, hosted on a Raspberry pi running Apache webserver. *Technologies: LAMP stack, HTML/CSS/PHP.*
 - Android app to display the weekly weather forecast utilising the openweather API.
 - Triple DES implementation from base principles in Python.
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