

Breandán Kerin, M.A.I, B.A.I, B.A

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About Me

I am a dedicated, hard worker who endeavours to complete my work to the highest standard possible. I enjoy working on difficult software and data science problems. I am a strong team player who can work independently when required and have taken a team lead position in many projects. My main interests outside of tech include music, food and travel.

Education

Trinity College Dublin: Sep 2014 – Apr 2019

College Green, Dublin 2, Ireland

Masters in Computer Engineering (M.A.I.)

- Final Grade: 73% – First Class Honours
- **Bachelors in Computer Engineering (B.A.I, B.A.)**
- Final Grade: 73% – First Class Honours

Ratoath College: Aug 2009 – Aug 2014

Jamestown, Ratoath, Co. Meath, Ireland.

Leaving Certificate 2014 (Equivalent: A Levels, SAT/ACT)

- CAO points: 475 (of possible 625)

Skills and Knowledge

Software Engineering:

1. Languages: Python, Java, R, C/C++, IA32, X64
2. Operating Systems: Linux, Windows
3. Environment Tools: Git, SVN, AWS (EC2, S3 Bucket), Maven, Junit, PyTest, testthat, Valgrind
4. Data Analysis & Storage: Kibana, Hadoop, Hive, Impala, Elasticsearch, Apache Lucene, SQL, MongoDB
5. Machine Learning: Keras, PyTorch, Sklearn, PySyft, Neural Network knowledge (RNN, CNN, MLP, Transfer Learning etc), Supervised & Unsupervised Learning
6. NLP: StanfordCoreNLP, NLTK, Gensim, Apache Tika, Word Embeddings, Text Processing, Attention Mechanisms (GRU, LSTM, Transformers etc)

Project Management:

1. Experienced in using the Agile Scrum methodology and certified CSM I.
2. Confident in adopting a leadership role to drive a team to success.
3. Experienced with projects in academic, workplace and volunteering environments.
4. Experienced in writing technical documentation.

Experience

Masters Dissertation – Trinity College Dublin

September 2018 - April 2019 (8 months)

[Temporal Word Embeddings for Dynamic User Profiling](#)

- Researched NLP techniques to model temporal user interests based on language usage – Awarded 78%.
- Supervisors: Prof. Séamus Lawless & Dr. Annalina Caputo. I am currently working to publish my research with Dr. Caputo.

Trinity Walton Club

September 2018 - June 2019 (10 months)

Trinity Walton Club is a STEM club that teaches secondary school students the core concepts in STEM.

- Co-taught secondary school students in coding using Scratch and AppLab on Code.org.
- Led several projects focused on introducing research skills to the students.

Office of the Revenue Commissioners Ireland

January - August 2018 (8 months)

Revenue is the Irish Government agency task force responsible for customs, excise and taxation in Ireland.

- Worked with the Analytical Technical Services team to develop visualisation tools for large datasets.
- Technologies used: R & R-Shiny, JavaScript, HTML, CSS, Hive, Hadoop, Impala, Python, MySQL

Optum Health/United Health Group (UHG)

June - August 2017 (3 months)

Optum Health is a technology-enabled Health Services company ranked #6 in the US Fortune 500 in 2016.

- Worked along-side the Big Data team as a Summer Intern to develop a patient claims cohort analyser.
- Technologies used: Java, JavaScript, HTML, CSS, AWS, Kibana, Maven, Jenkins

Permanent TSB (PTSB)

June - September 2014-16

- Customer services advisory and cashier.

Hospice Coffee Morning (Volunteering)

2015 – Present

- Several years participation in one of Ireland's largest fundraising events for the Hospice foundation.
- A large collaborative project that requires organisation and communication for success

References and Result Transcripts are available upon request.