

Cathal McGovern

Curriculum Vitae

WORK EXPERIENCE

AUG 2014 - PRESENT

SAP Business Objects Software Ltd.

Developer

- Worked with a team on the design, implementation, and testing of product software.
- Developed theoretical and practical knowledge of a variety of machine learning techniques and technologies.
- Contributed to all components of the software stack including application layer, database, and UI.
- Maintained unit and integration tests for all components of the product.
- Maintained translation system integration infrastructure, continuous integration systems, and automated testing tools.
- Participated in an agile scrum team maintaining a product backlog and working in sprints.
- Onboarded and mentored junior colleagues.
- Presented projects at internal conferences.
- Technologies used include JavaScript, SAPUI5, HANA SQLScript, ABAP, Coffeescript, git, Jenkins, OData web services, node.js, QUnit, Fitnesse.

PROJECTS

- PRESENT **SAP Predictive Analytics integrator**
A generic and flexible framework for the management and operationalization predictive models in business applications.
- PRESENT **Cellular Automata**
A suite of cellular automata written in object-oriented Python.
<https://github.com/CathalMcG/Cells>
- 2014 **Noise Reduction for Holographic Video**
An investigation into the use of sinusoidal masking to reduce speckle noise in digital holographic video.
- 2014 **Spam Classifier**
A machine-learning spam filter using a word-bag approach. Written in Python using scikit-learn.

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EDUCATION

- 2010 – 2014 **Bachelor of Science**
First Class Honours
Maynooth University
Final Year Project - Noise Reduction for Digital Holographic Video
- 2004 – 2010 **Leaving Certificate**
8 subjects at higher level - 510 points
C.B.S. Secondary School, Kilkenny

SKILLS

- Proficient With JavaScript, Object Orientation, Machine Learning, git, ABAP, SQL, Automated Testing, Linux
- Familiar With Python, Java, MATLAB, Scheme, Distributed Systems, Networks, Computer Vision, PHP, Applied Mathematics

ACHIEVEMENTS

- 2016 **Consumption of Predictive Models**
Co-wrote and filed a patent describing an approach for lifecycle management and consumption of predictive models.
- 2016 **Living at the Nuclear Brink**
Completed this course about nuclear weapons offered online by Stanford University.
- 2013 **Minds Society President**
Elected President of the Maynooth University computing society.
- 2013 **Cryptography I**
Completed this course offered online by Stanford University.
- 2013 **Irish Collegiate Programming Contest**
Participated as part of a team of three in this timed programming competition.
- 2012 **Games Without Chance - Distinction**
Completed this course in combinatorial game theory offered online by Georgia Institute of Technology.