19 Raphoe Road
Crumlin, Dublin 12
 +353 834236170
samueldoogan@gmail.com
www.doogyb.me

SAMUEL DOOGAN

I've had an interest in logical systems and the internal workings of the technology around me since I was a child, taking apart old CRT televisions and Sony Playstation Ones. My passion for computers began when I was 14, having first discovered the Linux operating systems. I quickly grew fascinated with the command line, and from there taught myself C and Perl. I'm eager to join the software industry as I'm sure it will be a huge opportunity to hone my skills and learn.

EDUCATION

UCD School of Computer Science — *Master's Degree*

SEPTEMBER 2016 - MAY 2019, University College Dublin

My research Master's thesis is in the field of Computational Linguistics and is entitled "Idiom Savant: The Automatic Detection, Location and Translation of English Puns". It discusses a system I developed which deals with the computational treatment and classification of written wordplay. The system achieves state of the art precision for the binary classification of heterographic puns.

UCD School of Computer Science — *BSc Degree*

SEPTEMBER 2012 - SEPTEMBER 2016, University College Dublin

Graduated with first class honours. Received an A grade on my final year project which subsequently led me to be enrolled in and funded for my Master's degree in computational linguistics.

St. Mac Dara's Community College — *Leaving Certificate*

SEPTEMBER 2006 - SEPTEMBER 2012

Achieved 540 points.

EXPERIENCE

University College Dublin, Belfield — *Computer Science Tutor*

SEPTEMBER 2018 - PRESENT

- Working specifically with the Computer Science Support Centre.
- Met all kinds of problems from different Computational Fields.
- The centre frequently has many students dropping in, which requires quick problem solving and a broad knowledge base to deal with technical difficulties, and clear conceptual understandings for teaching.

University College Dublin, Belfield — *Teaching Assistant*

SEPTEMBER 2017 - PRESENT

- Teaching assistant for various modules in the school of computer science, including *Data Science in Python, Program Construction I & II,* and *OOP in Python.*
- My main role was to act as an intermediary between the students and demonstrators, and the module coordinator. This involved organising the moodle/brightspace, setting the relevant material online and dealing with the majority of email-based queries.
- As T.A. I was also required to have extensive knowledge of the relevant subjects.

University College Dublin, Belfield — *Senior Demonstrator*

SEPTEMBER 2016 - 2017

- Demonstrating different Computer Science modules, which mostly involved answering student queries and helping students with their practical assignments.

University College Dublin, Belfield — *Junior Demonstrator*

SEPTEMBER 2015 - 2016

- Began in my final year of undergraduate studies. I went on to become a senior demonstrator through positive student feedback.

CrowBar, Button Factory, Dublin — *Sound Engineer*

JANUARY 2018 - PRESENT

- Live sound engineer for Crowbar.
- Familiar with an assortment of analogue musical equipment to cater for an eclectic mix of live acts.

SOFTWARE PROJECTS

A sample of some of the projects I have worked on.

- **PlotBot**: From my final year project. Involved parsing a book titled "Plotto" in order to provide automated writing prompts and encode and conceptualise the book in a machine readable format (trees and graphs). The tree structure was visualised and made into an interactive website.

  https://github.com/doogyb/PlotBot

- **CelebritySoulM8**: A proof of concept project. It uses a technology called Linguistic Inquiry and Word Count to capture a user's twitter sentiment and compare them to famous people on Twitter. Users can interact with the bot on Twitter itself, which is facilitated by the Twitter API.

  https://github.com/doogyb/celebritysoulm8

- **32Pac**: Another Twitter bot, this program scrapes a large corpus of text files containing rap lyrics. Using a number of heuristics, it attempts to reply to the content of people's tweets with relevant raps.

  https://github.com/doogyb/32pac

- **FictionBlend**: A computational representation of films using meta-data from IMDB and DBPEDIA (an ontological representation of wikipedia). This programs aims to automatically detect which films are using tropes innovatively, using a combination of graph theory and neural network autoencoders.

SKILLS

- Proficient in Python, Java and C.
- Good knowledge of Linux and BASH.
- Familiar with Machine Learning Toolkits and frameworks such as Keras, Scikit Learn, Numpy and Pandas.
- Working knowledge of Javascript, CSS and HTML and Git   .
- Fluent in English and French.

PUBLICATIONS

Doogan, Samuel, et al. "Idiom Savant at Semeval-2017 Task 7: Detection and Interpretation of English Puns." *Proceedings of the 11th International Workshop on Semantic Evaluation (SemEval-2017)*. 2017.

AWARDS

- Pun Detection system "Idiom Savant" selected for Semeval 2017 Best-Of Session.
- 1st place in SemEval 2017 Task 7.
- 1st place T.A. for 3rd Year modules, 2nd place T.A. for 4th Year modules, 3rd place T.A. for 2nd Year modules (2019, as voted for by the students).

INTERESTS

Music (I play Drums, Piano and a little bit of Guitar), Rock Climbing and Chess.

References are available upon request.