Brian Farrell

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Education

University of California Santa Cruz – Natural Language Processing Masters

Sept 2022 - Sept 2023

Currently studying Natural Language Processing at the UC Santa Cruz Silicon Valley Campus; my current GPA is 3.9

Trinity College Dublin – Computer Science B.S

Sept 2018 - May 2022

Received a bachelor's degree in computer science from Trinity College Dublin where I earned a first-class honour (Equivalent to an A)

Technical Skills

- Languages: Python, Go, JavaScript, Java, C, C++ , Haskell, SQL, HTML, CSS, Assembly
- Frame works & Tools: React Native, Vuejs, Git, Docker, Linux, Bootstrap, MATLAB
- Strong knowledge of Deep Learning, Machine Learning and Algorithms and Data structures

Work Experience

Salesforce Ireland – Software Engineer Intern (Python, SQL, Shell)

June 2021 – September 2021

- A three-month internship as a Software Engineer for the Systems Security team at Salesforce Ireland.
- I developed a new tool written in Python to help the team manage and organise their internal scrum meetings. This tool has since been extended and further developed to be used by more teams.
- I learned the basics of Systems Security and the work done by the team. As part of the internship, I spent time doing classes and being mentored in security basics and managing large amounts of servers.

Trinity College Dublin Students Union – Software Engineer (Golang, JavaScript, MongoDB)

May 2021 – December 2021

- A Software Engineering role for the Students Union in Trinity College Dublin. My built a management system and a file storage system for handling internal meetings, taking attendance and organising members and committees.
- A small team of just three people, I was entirely responsible for my own work and deadlines.
- Worked on an API written in Golang that utilised GoFiber to process HTTP requests and read and write from a MongoDB database, as well as frontend work using JavaScript.

Trinity College Dublin – Teaching Assistant (Java, Algorithms)

September 2020 – May 2022

- I worked as a Lab Demonstrator at Trinity College Dublin.
- I helped teach Algorithms and Data Structures to second year students.
- My job was to attend the weekly lab sessions and help reinforce what the students have been learning in class.

Freelance Work – Software Engineering (Python, JS, HTML, CSS)

2019 – 2022

- Throughout college I worked on several freelance projects.
- Wide range of work from websites for small businesses and Python scripts for larger organisations.
- Requires me to seek out clients myself and work directly with them, this has helped me develop a skill set for dealing directly with clients and creating clear project objectives and specifications.

Projects

- Gender debiasing in NLP – Exploring various debiasing techniques to mitigate the inherent bias found in many of the common datasets and pretrained models used in NLP research. https://github.com/nehapull/nlp243_final_project.
- Undergraduate Machine Learning Project in predicting the outcome of "League of Legends" matches during the game using various ML models. https://github.com/eoinpinaqui/machine-learning.
- iPhone Privacy: What Data Is Sent to Apple? – My undergraduate thesis was a research paper on the topic of iPhone privacy. Investigating the data that iPhones send to Apple while in regular use, intercepting http requests using a man in the middle attack to get an understanding of what information they might contain and the privacy implications for the user.
- Cloud Store – A cloud storage project intended to allow users to upload files to a personal storage. All documents are encrypted upon upload using RSA encryption and the user's public key. https://github.com/branflakes6/Cloud-Store.

Leadership experience

- Experience with Scrum meetings and being Scrum Master.
- Project Leader for several group projects throughout college.
- Helped run and operate the Fossil Free TCD Environmental Campaign.
- Member of the Trinity College Student Unions Environmental Committee.