

# Daniela V de Leon

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## EDUCATION

2022

### **University of St Andrews**

*MSc Computer Science, Distinction*

- Modules Include: Data Visualisation, Data Ethics, Artificial Intelligence, Software Engineering Principles and Practice
- Projects: Developed a responsive social media website with a full functional backend database using MongoDB with a team of classmates, Executed the analysis, preparation, and visualisation of a large scale biographical database to create a tableau based dashboard demonstrating the ways in which gender and profession effect dissemination of wikipedia articles across languages
- Key skills developed: data analysis, data visualisation techniques, full stack web development including database design and management, collaborative professional level research as part of a team, extensive research engaging with academics in the field, scientific bodies of work, and online resources
- Computer languages: Python (NumPy, Pandas, Seaborn), SQL, NoSQL (MongoDB), D3.js, JavaScript, Java, HTML, CSS
- Technologies: Tableau, Excel, Google Sheets, Git, Jupyter Notebooks

2021

### **Northwestern University**

*BPhil Information Systems, GPA 3.89*

- Modules Include: Database Design and Implementation, Data Engineering, Enterprise Data Science, Project Management, Python for Data Science, Statistics, Finite Mathematics
- Projects: Developed a machine learning model to predict future charity drive donors which utilised linear regression and decision tree classifiers, Coordinated with classmates to develop a solution for the German Traffic Sign Recognition Benchmark image classification challenge using Python and Azure notebooks for large scale modelling
- Key skills developed: Database design and management, Python based Data Science, Project Management, Data Visualisation, Statistical Analysis
- Computer languages: Python, MySQL, SPSS

## PROJECTS

2022

### **South Florida Seas, Masters Dissertation** <https://southfloridaseas.com/>

- Designed an online narrative driven data visualisation on South Florida's sea level rise and its effect on local communities
- Applied knowledge of Python, Javascript, Javascript libraries such as D3.js and Scrollama.js, Illustrator, and Tableau to create impactful data visualisations on complex climate topics
- Utilised Python for data extraction, transformation, and statistical data analysis
- Assembled a body of research on South Florida, sea level rise, and local communities which informed data analysis and narrative development
- Collaborated with academics across the field to source and curate datasets on local South Florida communities

2020

**Genome Sequence Analyzer** <https://the-eigenrau.github.io/genome-analyzer/>

- Led development of a publicly available coronavirus genome sequence analyzer which took genome sequences in the FASTA format to determine similarity with the NIH Coronavirus dataset to a high degree of accuracy
- Created visualisations using Python and python based libraries such as Bokeh
- Developed a public facing website which allows users to compare genome sequences and view data visualisations related to the NIH Coronavirus dataset

WORK EXPERIENCE

March 2019 – March 2020

**James L. Allen Center**

*Front Desk Agent*

- Assisted in the management of day-to-day facility operations, scheduled and coordinated events
- Created and maintained excel based datasets on parking and ticketing information of 1500+ monthly guests and employees
- Acted as a public facing first point of contact between building departments and guests
- Managed and balanced financial transactions using Excel and hotel management software
- Utilised complex, on-my-feet decision making and problem solving to quickly resolve issues during moments of high customer traffic
- Coordinated new team members to plan time and prioritise tasks effectively in a fast-paced environment

March 2018 – December 2018

February 2016 - January 2017

**AMP Productions**

*Executive Assistant*

- Oversaw the collection, processing, and organisation of data of over 3000+ customers
- Spearheaded development and maintenance of client capture websites which increased customer retention by 30%
- Relayed critical team information to company executives through reports and visual presentations using Excel, Powerpoint, and Tableau

June 2013 – April 2015

**Dealer Consulting Services**

*Administrative Assistant*

- Modernised customer data storage by leading the initiative to move customer information to a SQL server
- Managed and maintained customer databases
- Redesigned the company resources such as the policy handbook using Adobe Illustrator

Technical Skills

- Computer Languages: Python, SQL, NoSQL, Pandas, D3.js, Javascript, HTML, CSS
- Tableau, Excel, Adobe Illustrator, Jupyter Notebooks
- Data Visualisation: Experienced in creating intuitive and insightful visualisations using Python, D3.js, Tableau, and Illustrator
- Azure and AWS: Multiple semesters worth of practical experience managing and implementing ML models using cloud based architecture
- Languages: Spanish (Fluent)