

Andrei Bubutanu

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EXPERIENCE

- **Research Assistant** *since School of Management, August 2020*
 - Currently working as an RA in **Strategy and Entrepreneurship** department alongside researchers, helping them to achieve their goals from a Computer Science perspective (any technological hiccups they have in their research projects).
 - **organize and analyse unstructured data** using statistical methods for **data exploration**. Usually I prepare the data for investigations by using **web-scraping** and other **data gathering** techniques. (**Selenium, BeautifulSoup, Pandas, Numpy**)
- **Projects:**
 - **GoFundMe.com analysis:** Scraped ~6 mil. pages of charities using proxies and a single computer. Organized the data into tables and analysed them in order to understand the relation between consumerism and successful charities.
 - **DOTA data analysis:** Analysed ~69 mil. user records by grouping them into the teams they played with and creating an experience matrix representing the number of games a user played with a character until a certain point.
This analysis was later inferred and proven **relevant to the real business world**, where people have teams and 'play' against each other using their experience. Analysed if a diverse experience means more success for a team in a competitive context.
 - **RateMyProfessor.com analysis:** Gathered ~1 mil. pages of professor ratings and data in order to understand and analyse the performance of teachers in the business environment.
 - **etc.**
- **Connected Learning Internship:** *UCL, London, July 2020*
Developed and tested the Lab Ticketing System that implements the face-to-face Lab sessions for Computer Science students, allowing them to interact with TAs through video meetings and chat. My job was based on my **Python** since I studied **Django** framework to create new features and improving the existing ones. Moreover, I used **unit and functional tests** to prepare the system for deploying. I also got experience with **data management** and **databases (PostgreSQL, SQLite)**.
- **Programming Tutor and Transition Mentor:** *UCL, London, October 2020*
Helped 1st year students weekly with questions regarding C, Haskell, Java, Python, etc.

EDUCATION

University College London

2019 – Present London

major: MEng Computer Science; minor: Entrepreneurship

- **Machine Learning:** Researched **forecasting** Influenza-like-Illness rates using Google Search data as exogenous variable, under the supervision of prof. Ingemar Cox. Implemented different **ML algorithms** to understand what model better embodies the data features: autoregressive, linear(LSTM) and non-linear(GP) algorithms. Evaluated and wrote *literature reviews*, created and used relevant *statistical model evaluation* methods.
- **Python:** Took an IBM IXN project supervised by prof. Dean Mohamedally. It involved creating from scratch a 3D Hologram Pyramid Rendering tool that manipulates 4 live/recorded video streams and combines them to be renderable on a pyramid. With OBS we could perform **Hologram meeting calls**.
- **Java and Web development:** Created a **webapp** which displays, searches and modifies records in different ways making use of **Servlets, JSP, Cloud and Web Concepts**. Also developed a GUI with **Swing** which worked as a data organizer which makes use of a data frame which handles **CSV and JSON** files. Using **IntelliJ IDEA with Meaven, JUnit and Git**, I developed and understanding of debuggers, file systems and testing, developing **modal and collaborative software**.
- **"Launch a business" programme & London Student Bootcamp:** developed a full business and financial plan during 8 weeks of seminars and networking with VC limited partners from Notion Capital.

National College "Nicu Gane", Mathematics, Computer Science and Finance *2015 – 2019 Romania*

- **C++ and C Computer Science National Exam:** 10/10 graded exam involving advanced algorithm knowledge demonstrated in C++ and C.
- Baccalaureate Diploma(9.9/10) with **Computer Science(10/10)** and Mathematics(9.9/10)