TOMO UMER

Contact Info

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About Me

There are two aspects of my life that consistently go hand in hand: science and fiction. I've always had a passion for mathematics which lead me to studying physics and then explore project management.

Meeting my wife took me on a journey over the Atlantic Ocean. I ended up adding more varied skills to my repertoire by working in the Substance Use field. As soon as I learned about Data Science bootcamp with the Nashville Software School I applied without hesitation.

Skills

- Fluent in English, Italian and Slovenian
- Can work in Linux 🐧, Mac OS , or Windows ⊞
- Quick learner
- Python, R, PostgreSQL, C/C++

Professional Experience

Data Scientist Apprentice (DS6)   *September 2022 - Present*
Nashville Software School

Intensive part-time bootcamp focused on data science fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.

- Wrangled data and performed exploratory data analysis using Python's pandas library and R's tidyverse packages
- Created data visualizations using matplotlib, seaborn and plotly express, and ggplot2
- Performed geospatial analysis using geopandas and folium
- Gathered data through APIs and webscraping
- Retrieved and analyzed data using PostgreSQL, sqlalchemy and RPostgres
- Performed network analysis on graph data using Neo4j
- Built and deployed interactive data visualizations using the R Shiny library
- Source code version control with Git/GitHub
- Project management/tracking with GitHub project boards and issue tracking

Office Administrator   *March 2018 - Present*
Instructor   *October 2017 - March 2018*
Volunteer   *March 2017 - September 2017*
Bowdoin Recovery Services, LLC

Facility in Smyrna, TN offering individual mental health treatment, as well as co-occurring (substance use and mental health) outpatient treatment and court ordered classes and services.

- Redesigned and managed our website (BRS)
- Implemented online paperwork (JotForm)
- Configured and managed transition and integration of MS Office 365
- Implemented EHR system (ZooBook)
- Lead responsible person for ADAT/SPOT/CTC funds (TN-WITS)
- Certified PFL instructor (DUI school), Anger Management instructor, BIP classes co-facilitator and IOP instructor
- Continued yearly education

TLC Operator   *October 2017 - March 2018*
Staffmark for Asurion

- Inspected phones for cosmetic damage
- Verified functionality and checked for software issues
- Reset phones as needed
- Assisted other departments

Education

Data Science
September 2022 - ongoing
Nashville Software School, TN

Particle Physics *2007 - 2014*
University of Trieste, Italy

- PhD candidate January 2013 - May 2014
- Graduated Masters in Particle Physics cum laude in October 2012
- Graduated Bachelors in Physics cum laude in July 2010

Projects

[Steam Games Analysis]

- Midcourse project focussed on uncovering interesting trends in the Games available on Steam (by VALVE).
- Used a variety of R libraries, httr and rvest for attempted scraping and Steam API, tidyverse for data exploration, plotly and igraph for the network graph and shiny/shiny-dashboard for the app

[Venderbilt ACCRE user analysis]

- group project to better understand used resources by the ACCRE GPU clusters

Project Manager	*January 2016 - February 2017*
Phone Operator	*October 2015 - December 2015*

DINERS Club Italy S.R.L.

- Developed Microsoft SSIS packages to automate daily and weekly tasks of database manipulations
- Designed workflows in [WebCon BPS], which included automated Word and PDF document generation with prefilled fields and sending emails designed in HTML
- Constructed and displayed data from databases using T-SQL, JavaScript and WebCon BPS with Microsoft SharePoint
- Communicated with group leaders within the company and identified areas of improved and automation
- Data analysis and presentation with Microsoft Reporting Services
- Answered customers questions and helped them out through the process
- Called customers and requested documentation

Researcher *January 2013 - May 2014*
National Institute for Nuclear Physics (INFN, Italy) in collaboration with the European Organization for Nuclear Research (CERN, Switzerland)

- Worked on the validation of the Compact Muon Solenoid (CMS at CERN) official b-tagging algorithms (identification of bottom quarks) based on statistics and Neural Networks
- Researched the potential usefulness of developing of the c-tagger (charm quarks)
- Study of the CMS Electromagnetic Calorimeter response to measurements with the aging components
- Masters Thesis [Measurement of the associated production of a Z boson and hadronic jets with the CMS detector at LHC]