

Kerim Sertturk

Work Experience

May 2018 - **Reliability Data Analyst (Co-op)**, *Hydro One Networks*, Toronto, ON

- Aug 2019
- Developed an application with a Graphical User Interface using Python to extract reliability data from an Oracle database, decreasing the time the process took by 85%
 - Initiated an exploratory project using Python's Selenium package to scrap official weather data and map them to electricity line outages
 - Wrangled various internal databases to obtain GPS information of Hydro One stations and utilized Tableau to visualize reliability performance with interactive maps
 - Lead a power system analysis and data management project to identify interruptions affecting generators in Ontario, ultimately building a database utilized for various reliability studies
 - Conducted numerous reliability studies and produced performance reports for large customers

Jun-Jul 2017 **Human-Machine Interface Computer Vision Intern**, *Arcelik A.S.- R&D*, Istanbul, TUR

Jun-Jul 2013 **Energy Trade Analyst**, *Karadeniz Energy Group*, Istanbul, TUR

Capstone Project

Sep 2019 - **Machine Learning Solutions to Accelerate Drug Design**

April 2020 Collaborated in a team of five to build an image segmentation ML model, based on the U-Net architecture. Further details of the project can be found in the [video I made](#) for the team and detailed progress updates can be found on my [personal blog](#).

Personal Projects

April 2020 - **Web Development and Database Management for Personal Analytics**

- Present
- Scraped personal browser history with Python to track visited and read open-access papers
 - Built a MySQL database of the records automatically updated by the Python script
 - Developed a website using PHP and the Materialize design framework to view the MySQL table, as well as serve as my personal portfolio for future projects
 - Currently working on security measures and authentication to give further access to authorized users
- *The website isn't hosted yet since other key parts are still being developed, but a demo is available

Education

Sep 2014 - **University of British Columbia**, *BAppSc Electrical Engineering*, Minor in Political Science

May 2020 International Leader of Tomorrow Award: distinct scholarship within UBC covering all tuition expenses

Technical Skills

Programming Python [PyTorch, NumPy, Pandas, PyQt], MySQL, PHP, R, LaTeX, SSH, MS Office

Certificates Functional Programming Principles in Scala (Coursera), Developing SQL Databases (edX)

Design HTML & CSS, DaVinci Resolve 16, Adobe Illustrator & Photoshop