# Ali Alnasser

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## Education

King Abdullah University for Science and Technology — Dec. 2020
**M.S. Computer Science**
Thesis: An Empirical Study of the Distributed Ellipsoidal Trust Region Method for Neural Networks

University of Colorado at Boulder — July 2018
**B.S. Electrical and Computer Engineering** (GPA: 3.70/4.0)
**B.S. Applied Mathematics** (Major GPA: 3.84/4.0)
**Minor in Computer Science**

## Skills

Programming: Python, C, C++, MATLAB, LaTeX, JavaScript, HTML, CSS
Software: Alteryx, Tableau, Airflow, Superset

## Professional Experience

**Lead Data Scientist** — Quant Data and Analytics. Riyadh, KSA — April 2023-

**Senior Data Scientist** — Quant Data and Analytics. Riyadh, KSA — Oct 2022-April 2023

**Data Scientist** — Quant Data and Analytics. Riyadh, KSA — March 2021-Oct 2022

**Research Assistant** — Survey of Second Order Optimizers for Neural Networks — June-Aug 2019
Summer Research Position at ETH Zurich supervised by Prof. Torsten Hoefler and Dr. Tal Ben-Nun. Studied and implemented second order optimizers using DEEP500 framework in order to speed up and parallelize the training process for deep learning models. The code is developed in PYTHON and C++

**Research Assistant** — Analyzed Numerical methods for computing the Zeta Function — Aug-July 2018
Explored various methods to compute the zeta function such as brute force, Euler-Maclaurin, Riemann-Seigel. Methods and visualization code are implemented in either MATLAB or MATHEMATICA

## Projects & Experience

**Misc. projects** — various miscellaneous projects

- **Jaras article:** wrote an article in jaras blog
- **my_spending:** developed a dashboard to track my personal spending accross multiple cards
- **eigenvalue image classification:** developed a minimalist model using eigenvalue analysis
- **D3 & p5:** Developed various data visualizations through utilizing D3 and p5 frameworks.

**Assistant Instructor** — Jahez AI bootcamp — June-Oct 2022
helped develop the material for the first machine learning bootcamp and held the position of assistant instructor which included grading participant's assignments and developing research material for the class

**Senior Project** — Patients Tracking System — Fall-Spring 2018
developed a wearable pendants to be worn by the patients. Nodes(Raspberry Pi Zero W) are installed on walls to measure the pendant-node distance using RSSI and time of flight protocols.processed the pendant data received from the nodes to the server, developed the trilateration algorithm and displayed the pendants locations in a graphical user interface. Pyqt5 module is used for the GUI

**Learning Assistant** — APPM 4360: Complex Analysis, APPM 4350: Fourier Series and PDE's — Spring-Fall 2017
The position included holding office hours, grading homework and midterms, holding review sessions, and writing solution keys to weekly assignments

**stochastic modelling** — Modelling Monopoly Transitions as a Markov Process — Spring 2017
Modeled MONOPOLY as a Markov process. This model can is then used to analyze and produce a winning strategy to play the game. Results are compared to a simulation system to ensure the validity of the model