

ALI TAPAN

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EDUCATION

McGill University

2014 – 2019

B. Eng. Electrical Engineering
Minor in Software Engineering

WORK EXPERIENCE

Brainbox AI - Montreal, QC, Canada Software Developer (Backend)

Mar. 2021 – Current

- Developed software tools for AI operation and monitoring as part of the Ecosystem team.
- Built efficient data pipelines using AWS tools like Lambda, Kinesis, and S3 with Python.
- Architected backend services using FastAPI, enhancing dashboards and monitoring tools such as Icinga and Datadog.
- Troubleshoot data extraction issues for buildings using BACnet or Tridium/Niagara protocols in HVAC networks.
- Resolved software issues related to Linux systems.

McGill University - Montreal, QC, Canada Research Assistant – Data Scientist

May 2020 – Dec. 2020

- Analyzed textual data to identify instances of internet censorship.
- Developed web crawlers with Python and Selenium to scrape large volumes of data.
- Built LDA models using gensim for topic modeling to derive insights from collected data.

Bombardier Aerospace - Mirabel, QC, Canada Avionics Engineer (Co-Op)

May 2018 – Sept. 2019

- Developed products for Bombardier CRJ aircrafts, adhering to FAA/EASA/TC regulations.
- Played an active role in the development of multiple avionics and electrical systems projects, contributing to the successful completion of these initiatives.
- Designed test tools and harnesses, boosting productivity for aircraft technicians.
- Automated tasks with Python scripts for better database access.
- Supported multiple aircraft tests.

OTOKAR Automotive and Defense - Sakarya, Turkey Electrical Engineering Intern

May 2017 – Aug. 2017

- Conducted servicing and repairs of ARMA 8x8, 6x6, and KAYA vehicles, ensuring they meet manufacturer specifications.
- Analyzed various communication data frames to troubleshoot and resolve issues promptly.
- Assisted in multiple vehicle tests, including corrosion and EMI, providing valuable support to ensure the success of these tests.

EXTRACURRICULARS

Sports

- Member of Enka SK water polo team (Istanbul) and McGill Men's water polo team.
- Selected for U15 and U17 Turkish national water polo team for European competitions (2011-2013).
- Achieved 1 silver and 1 bronze medal in European Aquatics youth tournaments (2011, 2013).

SKILLS

TECHNICAL SKILLS: Python, Java, Go, C, SQL, AutoCAD

LANGUAGES: Turkish (Native), English (Fluent)