

Liza Babaoglu

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EDUCATION

Bachelor of Applied Science, 2nd Year Student
University of Toronto, Electrical and Computer Engineering

RESEARCH EXPERIENCE

Data Science Lab, Ryerson, Toronto — Intern May 2020 - Present

Highlight: Analyzing the open-sourced National Collision Database (NCDB) from Transport Canada.

- Audited three courses regarding data analytics in R.
- Coding in R, conducting initial and exploratory analyses and performing predictions on this data-frame of about 6.7 million observations recorded from 1999 to 2017.
- Next steps are writing a descriptive report showcasing the methods used, the results and discussions.

INDUSTRY EXPERIENCE

Toros Filtration, Istanbul, Turkey — Intern July 2018 - July 2019

Highlight: Interacted with investors, engineers, sales representatives and visitor guests in the Hannover Messe International Conference, Germany, 2019.

- Learned about chemical and physical applications in machines and got familiarized with filter units, breathers, and hydraulics and lubrication systems
- Experienced a world-class business atmosphere encompassing high-technology trends in cogeneration systems and clean-energy sectors.
- Had the responsibility to introduce, present and promote the company's original "Oil Purification System" to technical and commercial representatives from different countries.
- Recognized as the most diligent member.

ENTREPRENEURSHIP EXPERIENCE

 July 2018 – present

Highlight: Addressed the lack of quick and inexpensive production of personalized objects.

- Launched the idea of 3D printing personalized gifts in less-common alphabets with unique designs.
- Designed and delivered original letter ornaments, keychains and gifts at a low manufacturing cost.
- Arranged materials and services.
<https://lizababaoglu.wixsite.com/website>

ENGINEERING PROJECTS

- Manuscript on “The Impacts of International, Domestic, and Local Mobility on COVID-19 Deaths” (co-author)
- Reversi Game (individual)
- Conceptual Radio-wave and Thermal Camera Activated Boundaries (RTCAMP) for Wildlife Identification and Unexpected Encounter Prevention in National Parks of Canada (Team Leader)
- Conceptual Protective PTFE Box to protect HVAC systems from Flood Water (Project Manager)
- Mini-Walking Robot (Workshop Intern)

VOLUNTEER AND EXTRACURRICULARS

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|---|----------------|
| • Women's Director: Engineering Athletic Association (EAA), U of T | 2020 – present |
| • Team Member: University of Toronto Aerospace Design Team (UTAT), Space Division | 2019 – present |
| • MVP and Player: Intramurals Women and Co-ed Volleyball, U of T | 2019 - present |
| • Coach: Elementary Girls' Volleyball, A.R.S | 2018-present |

TECHNICAL SKILLS

Programming Languages:
C, R, Python, JavaScript,
Arduino, BASIC, MATLAB

Design: Fusion360, Piktochart

Organization: MS Office,
G Suite, Gantt Chart

SELECTED AWARDS

- 2nd in Bioengineering Design Case Competition, 2020
- Leadership Award, 2019
- School Champion at Waterloo Math Contest, 2016, 2018
- Beach Volleyball National Champion, 2014
- 4th in Mind Olympics, Vienna, 2013
- 50+ medals regarding chess, track and volleyball

SELECTED SCHOLARSHIPS

- ARS Teacher Scholarship
- Dean's Merit Award
- Faculty of Applied Science and Engineering Admission Scholarship
- Barbara Mccann Tribute Scholarship
- Scholarship for Engineering and Architecture
- Mathematics and Chemistry Awards

LANGUAGES

English, Armenian, Turkish