ZAHRA AMINOLROAYA *(SHE/HER)*

🌐 Portfolio Webpage   in LinkedIn Profile   @ z.aminolroaya@gmail.com   📍 Calgary, Alberta, Canada

ABOUT ME

My life's passion is to positively impact living beings, with a focus on enhancing the quality of life and experiences of humans.

EXPERIENCE

UCalgary Research Staff (short-term Project)

HOPE Lab, Collaboration Centre

📅 March 2023 – Ongoing   📍 Calgary, Canada

- Developing and releasing a training system to avoid youth suicide using conversational AI and face recognition (to be used in a user study with psychologists)

UCalgary Data Scientist (Part-time)

Clinical Research Unit

📅 May 2019 – April 2023   📍 Calgary, Canada

- Responsible for evaluating and interpreting client satisfaction data using a BERT transformer model with an accuracy of 70% based on Jira service desk tickets
- Creating predictive models for surgical outcomes based on clinical notes with AUC ROC 0.88 (+/- 0.02 SD) and patient mortality based on patient's characteristics with AUC ROC 0.80 (+/- 0.06 SD)

UCalgary Research Assistant

SEER Lab

📅 January 2019 – April 2023   📍 Calgary, Canada

- Specializing in the design and evaluation of augmented and virtual reality (AR/VR) systems and information visualization working with MRI & EEG data
- Developed a VR epilepsy presurgical evaluation system as a team head resulted in four publications, qualitative positive feedback from neurologists, one job offer, and a presentation in the pediatric sEEG course

R & D Engineer

Dataak

📅 Dec 2017 – Nov 2018   📍 Tehran, Iran

- Monitoring and management of text big data for handling instant services' requests and NLP engineering using SolrCloud, the Airflow workflow management platform, and Grafana

Data Scientist

Dayche Data Mining Group

📅 Sep 2016 – Dec 2017   📍 Tehran, Iran

- Utilizing NLP and ML techniques for a customer relationship management problem (CRM modeling), contributing to the release of the DaycheR platform, pharmacy data integration, and consulting a banking company

INTERESTS

Data Science   NLP   Data Engineering

Extended reality (AR/VR)

Human-computer Interaction

STRENGTHS

- Programming

Python   C#   SQL   R   JAVA

- WEB

REST API   HTML / CSS   Javascript

- Platforms

AWS   Gephi   Apache Solr & SolrCloud

RedCap   GitHub   Unity   Trello   Jira

Tableau

- Libraries

Hugging Face   spaCy   NLTK

PyTorch   tensorflow   transformers

scikit-learn   NumPy   Pandas

R Shiny   Apache Lucene   D3.js

- Others

Social Network Analysis   Git

Agile Development   Apache Airflow

Grafana   Linux   Microsoft 365

VOLUNTEERING

- Presenter of Canadian Pediatric SEEG Course
- UCalgary CS Vice-President Academic
- UCalgary CS Graduate student representative
- Mentor of Banff 2050 Project
- Consultant of a computer vision master project (UCalgary)
- Lecturer of a Social Network Analysis Seminar (SBU)
- Mentoring team members for familiarization with Data science (Clinical Research Unit)

R & D Engineer

Cyber Space Research Center at Shahid Beheshti University (SBU)

📅 Aug 2015 – Sep 2016 📍 Tehran, Iran

- Developing a person plagiarism detection platform using NLP techniques and trie-based data structure of Solr Cloud (a top platform in PersianPlagDet 2016 competition)

EDUCATION

PhD. in Computer Science

University of Calgary

📅 January 2019 – April 2023

- Streamlining Epilepsy Surgery Planning Rounds with Virtual Reality
- Supervisors: Frank Maurer, Ph.D and Samuel Wiebe, MD
- GPA 4/4

M.Sc. in Computer Science

University of Shahid Beheshti

📅 2014 – 2016 📍 Tehran, Iran

- Thesis Topic: Uncovering the Structure and Temporal Dynamics of Information Propagation
- Supervisor: Ali Katanforoush, Ph.D
- GPA 4/4

B.Sc. in Computer Science

University of Shahid Beheshti

📅 2010 – 2014 📍 Tehran, Iran

- GPA 4/4

REFERENCES

Lennard Kuijten

Manager Tech Solutions & Innovation

📍 Clinical Research Unit @ lennard.kuijten@ucalgary.ca

Frank Maurer

Professor/ supervisor of computer science

📍 UCalgary @ fmaurer@ucalgary.ca

HONORS

Alberta Innovates Graduate Student Scholarships

University of Calgary

📅 2021 📍 Calgary, Canada

Awarded $31,000

Alberta Graduate Excellence Scholarship (AGES)-International students

University of Calgary

📅 2020 📍 Calgary, Canada

Awarded $15,000

Alberta Innovates Graduate Student Scholarships

University of Calgary

📅 2020 📍 Calgary, Canada

Awarded $18,000

Outstanding-student admission offer without taking entrance exam

Shahid Beheshti University

📅 2014 📍 Tehran, Iran

- Ranked 3rd among all graduates in the department class of 2016
- Ranked 3rd among all undergraduates in the department class of 2014