Yahya Badran

Applied Mathematics for Network and Data Sciences (M.Sc.)

Mittweida, Germany

■ Me@ybadran.com

ybadran.com

blog.ybadran.com

github.com/badranx

+4917676559158

Skills: Programming

Main:

Python • C • C# • SQL • Bash

Used in the past:

Java ■ C++ JavaScript/CSS/HTML

Familiar:

Golang ■ R ■ GLSL

Skills: Frameworks

Pytorch • Numpy • Pandas • OpenGL • Flask • FastAPI • NLTK • Tensorflow • JAX (familiar) • Trax • gitlab CI/CD • Scrappy • OpenCV

Skills: Tools

Linux • Git • Huggingface • MongoDB • Heroku • Docker

Languages

Arabic (C2) • English (C1) • German (B1) • Hebrew (A2)

References

Mahmoud Badran, Senior Computer Vision Engineer, Reconess

mbadran@reconess.com

Tareq Al-Qab, Senior Biomedical Engineer at Al-Najah University Hospital

tareq.alqabb@gmail.com

Soft skills

- Problem-solving
- Critical thinking
- Teamwork
- Openness to criticism

Education

M.Sc Applied Mathematics for Network and Data Sciences

Mittweida University of Applied Science | Germany

Work Experience

Data Science (NLP)

8/2021 - today

9/2018 - 7/2021

LangXLang.com | non-profit | co-founder

Technology: Python, Stanza, Spacy, NLTK, Pytorch, Hugginface

- Tokenizing and POS Tagging huge multi-lingual corpora (datasets).
- Researching text generative models.
- Researching seq2seq (translation) models.
- Automating outputting human readable books from data.

Freelance Developer and Indie Game Developer

4/2016 - 9/2018

xlang.info

Technology: C#, Java, SQL, Mongodb, Python, Android

- Two Unity game engine libraries for video game developers.
- Customer support for the libraries.
- One Android project related to a unity library. Java.
- Two indie video Games. C#
- One websites for local users (Flask, SQL, MongoDB, HTML, CSS).

Software Developer

6/2015 - 3/2016

PinchPoint (no-longer exist) | Ramllah Technology: C#, Java, Javascript, REST API

- Worked on 3 different video games.
- Lead a team of interns to develop a video game.
- Added SIM card payment solution in the MENA region (REST API, Java EE, Javascript).
- Built two art creation tools/editors for our artists.

Software Developer

1/2015 - 4/2015

Neiraba Animation Studios Technology: Javascript, HTML, CSS

• Converting Flash video games to Javascript/HTML5.

Opensource Projects

 "Android & Microcontrollers / Bluetooth" library: It was top 10 on the Assetstore input management category. Later, become open-source.

Technology: C#, Java, Multi-threading, Bluetooth, Unity3d

- Published on Unity: u3d.as/78c
- Open-Source: github.com/badranX/bt-lib
- MyGnuplot: Plot library, interfacing GnuPlot. URL: github.com/badranX/bt-lib
- Opus-Raw: A Hugginface dataset. URL: huggingface.co/datasets/badranx/opus_raw

Research

- Badran, Yahya. "VQ-VAE with Neural Gas and Fuzzy c-Means". Thesis. 2021.
- Acknowledged for demonstrating the last section in: Demaine, Erik D., and Mikhail Rudoy. "Tree-Residue Vertex-Breaking: a new tool for proving hardness." 16th Scandinavian Symposium and Workshops on Algorithm Theory. 2018.
- Course research: Badran, Yahya. 2022. "Non-linear Time Series Prediction: A Survey."
 OSF Preprints. May 13. doi:10.31219/osf.io/5ab8n.
- Course research: Badran, Yahya. 2022. "Variational Auto-encoder with Student's T Prior: Excerpt." OSF Preprints. May 13. doi:10.31219/osf.io/c2unf.