Muhammed ElRakabawi

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SKILLS

BIOTECHNOLOGY
Tissue Culture • Spectrophotometer • PCR/qPCR • Gel Electrophoresis • Chromatography (HPLC) • DNA Sequencing • Statistical Analysis

PROGRAMMING
Over 5000 lines:
Python • JavaScript • Perl/BioPerl • C++ • HTML/CSS3/SASS • LaTeX
Over 1000 lines:
Web3JS • Go Lang • Matlab • R Lang
Frameworks:
PerlDancer • Bootstrap • Bulma • Vuetify • Electron
Familiar:
BioPython • IPython • Angular • Shell

ABSTRACT
Knowledge:
Distributed Systems • Neural Networks • Applied Cryptography • Bio-Scripting • User-Interface Design • Web Development technologies • Git
Design Patterns:
MVC • MVVM

EDUCATION

MSA UNIVERSITY
B.SC. BIOTECHNOLOGY
Expected May 2021

AGYAL INT. SCHOOL
Grad. May 2016

LINKS

Researchgate:// **Muhammed S. ElRakabawi**
Github:// **elrakabawi**
EthResearch:// **elrakabawi**
LinkedIn:// **elrakabawi**

RESEARCH

NILE UNIVERSITY BIOINFORMATICS CENTER | Undergraduate Research Intern
Apr 2018 – Aug 2018 | Giza, Egypt
Worked with Dr. **Mohamed ElHadidi** to create a machine learning species level 16S rRNA taxonomic classifier for Next Generation Sequencers.

LAMARKAZ RESEARCH | UXD/Usability Researcher
Sept 2017 – Present | Cairo, Egypt
Worked with **Nour Haridy** and **Ihab McShea** to create a user-friendly decentralized judicial system on the blockchain for dispute resolution between decentralized applications users.
Whitepaper available here.

EXPERIENCE

INSTADIET | FRONT-END DEVELOPER
June 2014 – Sep 2014 | Remote

LAMARKAZ | FRONT-END UI Developer + Web3 Engineer
Sept 2017 – Present | Full-time

PROJECTS/HACKS

OCTOPETH | Front-end / Web3 Engineer
DESKTOP APP | ELECTRON, VUE/VUETIFY AND WEB3
A Decentralized Ethereum dApp Store.
Github Repo.

GENTEIN | Sole Developer
CLI AND WEB APP | Perl/Perl Dancer
An open source DNA/RNA Translator and Open-Reading frame finder written in Perl/BioPerl and built on PerlDancerfor Web.
Github Repo.

MENDROSS | Sole Developer
CLI AND WEB APP | Perl/Perl Dancer
An open source Mendelian Crossing generator with punnett squares and chi-square analysis functionality written in Perl/BioPerl and built on PerlDancerfor Web.
Github Repo.

AWARDS

2018	25 Under 25	Startup Scene
2016	Top 10	[Finalist] Egyptian Brain Bee Competition
2015	Bronze Medalist	Egyptian Olympiads in Egypt
2015	National Finalist	International Science and Engineering Fair

TRAINING

2018	CURP	Animal Cell and Tissue Culture
2017	CURP	Gene expression analysis using real-time PCR technique
2014	AAST/MCIT	Competitive programming in C++
2014	AAST/MCIT	Algorithms and Data structures in C++