

MUHAMMED ELRAKABAWI

Web3 Front-end Engineer

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github.com/elrakabawi Cairo, EG

SUMMARY

- Self-taught Web3 Front-end developer with 7+ years of experience in developing beautiful, performant, and accessible web applications.
- 5 years of experience working with web3 libraries, EVM and subgraphs.
- React player, Vue lover, and Typescript nerd.
- Joined crypto in 2017, co-founded Lamarkaz; R&D lab in the same, led their front-end, and was listed in Egypt's 25 under 25 in the following year.
- Started coding at 11, and professionally in 2016 after earning a bronze medal in the national competitive programming competition with C++.
- Able to work independently of remote locations or in office environments as needed by the company.
- Egyptian, have a degree in Biotechnology from MSA in Cairo, and like to write bioinformatics python scripts in my free time.

PROFESSIONAL EXPERIENCE

Senior Web3 Developer 2023 - Present
Archerswap Remote, Contract

- Merged Pancakeswap fork into existing React project by rewriting some custom hooks, merging Redux state & reducers, routing and providers.
- Increased performance by reducing RPC calls by 60%.
- Added NFT sender functionality. (ERC721)
- Worked with other devs on a regular basis, checking PRs, adding feature branches and merging PRs into main branch.

Co-founder & Lead Web3 Full-stack Developer 2022 - 2023
Station Zero X Cairo, EG

- Worked on Encounter a web-based P2E strategy board game using VueJS, MongoDB, Vercel functions and Solidity (had over 2,500 registered players).
- Implemented core game logic, matchmaking and ELO ranking using Vercel serverless functions.
- Optimized player profiles by reducing serverless endpoint response time from 60+ seconds (increased exponentially when players surpassed 700 matches) to less than 9 seconds (worst case, the highest match number) by MongoDB indexing, batching and rewriting fetch matches endpoint. (<https://github.com/station0x/encounter>).
- Developed FinalCypher Launcher and auto-updater using Tauri framework. Front-end with VueJS and Tailwind CSS, backend as a side-car in NodeJS and express with some basic Rust code. (<https://github.com/station0x/FinalCypher-Launcher>).
- Created auto-updating feature by diffing local merkle tree representation of game files against remote tree to fetch new, missing or corrupted files.
- Authored git workflow for CI/CD of game launcher.
- Wrote, tested and deployed NFTs and Sale smart contracts using solidity and hardhat with whitelisting functionality, created the front-end and did a good sale with over \$200K on Fantom.

Senior Web3 Developer 2020 - 2022
JetSwap Remote, Global

- Redesigned 80% of Jetswap AMM interface using plain CSS and Styled Components.
- Maintained Jetswap Front-end, added vanity features on weekly basis.
- Forked and modified Uniswap V2 subgraph, deployed and consumed it in front-end.

Senior Front-end Developer 2018 - 2020
Business Innovation Mine Remote, Saudi Arabia

- Developed the front-end of Aseel, a real estate investment using VueJS, Bulma and Axios for consuming RESTful endpoints.
- Worked agile with Scrum Method, with 2 weeks sprint cycle. Conducting daily stand-ups meetings and tasks reporting.



ACHIEVEMENTS

Earned Bronze Medal in Competitive Programming

- Got a bronze medal in Egyptian Olympiads in Informatics in 2015 in the age of 18. A national contest in Competitive Programming and Problem solving using C++.

Built Encounter

- Solely built Encounter, a play to earn game that reached 2,500 players within the first 3 months.

Co-founded Lamarkaz

- Co-founded the first blockchain R&D lab in Egypt. Began as a duo, until it reached 10 employees with 8 on the tech team. Got featured as 25 under 25 by Startup Scene.

SKILLS

Languages

Javascript • Typescript • Solidity • Python

Frameworks / Libraries

React • Vue • NextJS •

Styled Components • Redux •

TailwindCSS • Bulma • Electron • Docker

Backend

REST • MongoDB • Vercel • Firebase •

GraphQL • NodeJS

Markup / Preprocessors

HTML • CSS • SASS

Web3

EthersJS • Web3JS • Remix • TheGraph •

Hardhat • WAGMI • Alchemy

AWARDS

🏆 Bronze Medalist - Egyptian Olympiads in Informatics (2015)

🏆 National Finalist - International Science and Engineering Fair (2014)

PROFESSIONAL EXPERIENCE

Senior Front-end Developer 2018 - 2018

Maison Pyramide Cairo, EG

- Migrated old website from Vanilla JS to React.
- Maintained the landing page in React, and worked closely with content creators to update it regularly.
- Developed the e-showroom, a digital alternative to regular showroom in Paris using React and styled components.
- Optimized app performance by implementing best practices, including CDN for hosting, using proper formats, and lazy loading.

Co-founder & Web3 Front-end Engineer 2017 - 2018

Lamarkaz Cairo, EG

- Developed Metacash a gasless DAI cross-platform mobile wallet using React Native.
- Implemented Dcourt a dispute resolution platform to enable crowd sharing decentralized applications on Ethereum interface in Vue.
- Camilion a JS-based POS network using tendermint.
- Parasol a smart contract development and deployment tool (with solidity preprocessor called psol, similar to hardhat).

Front End Developer 2016 - 2017

instadiet.me Cairo, EG

- Built Instadiet dashboard UI for doctors using VueJS.
- Developed Instadiet patients dashboard.
- Implemented dashboard CRUD operations using RESTful APIs.

Junior Web Developer 2015 - 2016

Netaq Ventures Cairo, EG

- Completed MeshRadio, an audio streaming web app using jQuery and Websocket.
- Created Netaq main bilingual website using Meteor.

EDUCATION

B.Sc. - Biotechnology 2017 - 2022


MSA University Cairo, EG


LANGUAGES

Arabic Native ●●●●●


English Advanced ●●●●●


LINKS

 **GitHub**
github.com/elrakabawi

 **Portfolio**
elrakabwi.eth.limo

 **LinkedIn**
linkedin.com/in/elrakabawi

 **ResearchGate**
researchgate.net/profile/Muhammed-S-Elrakabawi

 **Rosalind**
rosalind.info/users/elrakabawi/