

Giza, Egypt

# Tasneem Toolba

[Email](#)

[Github](#)

## BIO

Frontend-focused Web3 engineer with 5+ years of experience in mobile and web development. I specialize in building seamless, intuitive user interfaces with React and TypeScript. I've built both financial and decentralized applications. Winner of multiple Web3 hackathons and contributor to tools bridging DeFi with real-world usability.

## EMPLOYMENT

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<b>Blockchain FullStack Engineer</b>	<b>Freelancer</b>	<b>Dec 2024 - Current</b>
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- Built and deployed performant and accessible dApps using React, TypeScript, Ether.js, and Web3.js.
- Built, deployed, and integrated smart contracts on Ethereum, TON, Flow, and other blockchains.
- Researched and integrated Web3 KYC solutions for secure user onboarding.
- Worked with multiple blockchain contracts to enable DeFi and other decentralized features.

<b>Software Engineer</b>	<b><a href="#">EFinance</a></b>	<b>Aug 2023 - April 2025</b>
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- Develop fintech mobile applications using the latest technologies in native Android and Kotlin.
- Develop new software projects([this](#)) and libraries for POSs
- Maintain water, gas, and electricity POS C/C++ libraries and integration with Android apps
- Integrate the Payment gateway and ECR protocol in the developed mobile apps using both SOAP messages and REST APIs

<b>Fullstack Engineer</b>	<b><a href="#">AppNest</a></b>	<b>Sep 2023 - Dev 2024</b>
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- Write CI/CD to auto-deploy .NET, Node.js, Angular, and other application stacks to IIS(Windows), and nginx(Linux) using YAML files, Docker, and Kubernetes
- Built internal dashboards and backend APIs with Node.js and React.

<b>Mobile Developer</b>	<b><a href="#">Hello Move</a></b>	<b>Jan 2022 - Spring 2023</b>
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- Developed and maintained the company's service: available on (App Store, [Google Play](#), & App Gallery).
- Use REST APIs to manage data in the app, GitHub Actions to auto-deploy the app to Google Play
- Use the latest state management apps like Blocs for state management

<b>Mobile Developer</b>	<b>DevStack</b>	<b>Mar 2021 – Dec 2021</b>
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- Built various Flutter and React Native applications, utilizing Firebase apps and Django for the backend.
- Integrate Google Maps, utilize Firebase and Firestore, and integrate NFC detection and face detection

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## VOLUNTEERING

<b>EthGlobal</b>	<b>2025</b>
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<b>EthCC</b>	<b>2025</b>
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<b>C/C++ and Algorithms Couch</b>	<b>Sep-Dec 2020/June-Aug 2023</b>
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- participated in the 2020 Saudi Arabia Olympics in Informatics, and the 2020 & 2023 Egyptian Olympics in Informatics as a coach
- Teach fundamentals of C/C++, competitive programming, algorithms, and data structures.
- Prepare students for national and international Informatics Olympiads.

## EDUCATION

Innopolis, Republic of Tatarstan

Innopolis University

Fall 2019 – Jun 2023

- B.S in Computer Science - **GPA 4.5/5** - fully funded scholarship

## PROJECTS

- [Minesweeper](#): a minesweeper game on-chain, where you can save and mint the final board
- [Order Hookah](#): a Uniswap v4-based Farcaster miniapp enabling advanced limit orders and optional KYC for seamless, gas-efficient, non-custodial trading.
- [Productivity Agent](#): a Telegram bot that helps people accomplish their goals using a defi reward system
- [Wagmi-ERC-3770](#): an extension to Wagmi that extends the usage of ERC-3770, won first place in Optimism Superchain Interoperability track in Aleph De Vanero Hackathon
- [Cross-Chain Uniswap Mini App](#): EthGlobal Bangkok hackathon project, mini app swaps tokens cross-chain
- [Compiler](#): A compiler for a user-defined functional programming language using C/C++.
- [Digital Library](#): An online course content management system using Django and Vue.js.
- [InnoTutor](#): A tutoring management app where students offer tutoring services in their areas of expertise and earn university digital currency, synchronized across other university websites using Flutter.
- [FinnData](#): A stock app that allows you to search and receive information about stocks in Flutter.
- [RecipeSearch](#): An app that helps you to find cuisine recipes; the Front-end was in Typescript, React

## ADDITIONAL EXPERIENCE AND AWARDS

- Top 5 in the Investment TV program “Cairo Innovates” in 2018.
- Golden medalist, Silver medalist, and IOI qualification participant in 2015-2019.
- First place in RoboGames in 2018.
- Intel ISEF participant in 2016.

## LANGUAGES

- **Cairo**: Starknet Challenges & Speed runs challenges
- **Solidity**: Foundry & Hardhat, Cyfrin Solidity and Foundry courses, ERC20, ERC721, ERC1155
- **Python(Backend/Django, & web3/blockchain)**: Junior [DynamicNFTMinterBot](#), [DjangoProject](#), [PrayerBot](#), [Digital Library](#), [Databases](#).
- **C/C++**: Intermediate [Compiler](#), [Operating Systems](#), [Matrix Fraction](#),
- **Flutter/dart**: [WeatherApp](#), [FormApplication](#), [CleanHabits](#), [OnlineChatRoom](#), [FinnData](#), [ChuckNorris](#)
- **DevOps(K8s, Terraform, Vagrant, Docker, & monitoring)**: [Best Practice](#)