Noor Amjad Ahmed

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Passionate and experienced Software and Mechanical Engineer with a strong foundation in system-level programming, web development, and DevOps. Skilled in designing efficient,scalable and secure applications using modern technologies.

PROFESSIONAL EXPERIENCE

Freelance Web3 Crypto Developer *as Bounty Hunter, Remote*   ***Present***

- App Development & Bug fixing
- Translating crypto wallet apps with over 100k users
- Full Front-end Design for the popular monero crypto website
- Full roff manpage documentation for the popular monerod used in p2p monero blockchain
- Docker implementation for the popular CakeWallet app

Full stack web dev *for 72h at GDG24 largest hackathon in delta*   ***3/12/24***

- Full Front/Back Design of Ecommerce "Localista"
- Business model Analysis

First Position in Mechanical Measurements Workshop *Full Smart Weather Station*   ***20/12/24***
- Full Front/Back Design of "Skysnap"
- Full circuit design using ESP32
- Weather station using mechanical crafted solutions and sensors

PROJECTS

AthleteIQ — Full-Stack zkML Coaching dApp
Tech stack: Next.js, Flask, Solidity, TensorFlow, IPFS, zkSNARKs/zkSTARKs, Solidity, Ethereum/Polygon, Hardhat, Ethers.js, zkLogin, MetaMask.
- Built a decentralized AI-powered training platform for athletes using zkLogin authentication and on-chain zkProof verification.
- Developed AI/ML models to analyze biometric performance and deployed results to IPFS.
- Designed and deployed smart contracts for tokenized rewards (ERC-20, NFT) with gamified leaderboards.
- Orchestrated backend (Flask, MongoDB) and frontend (React + Ethers.js) integrations with Sepolia testnet.

Quizzit — AI-Powered Quiz-for-Refund Platform

Tech stack: Next.js, OpenAI, Solidity, Tailwind, MongoDB, Vercel AI SDK, Supabase, Solidity, Hardhat, Sepolia, pdf-parse, mammoth, txt-parser, wagmi, ethers.js.

- Created a quiz-based study dApp where users pay ~$10, pass the quiz, and get refunded via smart contracts.
- Implemented AI quiz generator that parses user-uploaded documents and generates MCQs via LLMs.
- Developed a refund-or-donate logic using Ethereum smart contracts based on quiz performance.
- Managed web3 session tracking and payment validation through blockchain-linked JWTs.

zkLogin System Circuit

Tech stack: Rust, TypeScript, Circom, Solidity

- Designed a full off-chain/on-chain login system with zkSNARKs and Ethereum address verification using JWT.
- Constructed a Keccak256-based login circuit with Circom + Rust to derive ETH addresses and generate valid zkProofs.
- Integrated zkProof validation in Solidity and built frontend for interaction using Ethers.js.
- Achieved decentralized, keyless user authentication with zero-knowledge privacy guarantees.

EDUCATION

High School Diploma • *Rehab Saudi School Final year Grade: 99%*   ***Graduation Year (2022)***

Software Engineering • *African Leadership Experience SE Program*   ***Graduation Year (2024)***

Mechanical Engineering • *Mansoura University*   ***Graduation Year (2027)***

Awards & Achievement & Certifications

- [Alx Software Engineer](#)
- [Certified SOLIDWORKS Associate (CSWA)](#)

PERSONAL DETAILS

Egypt, Mansoura, Al Mashayaa

01/01/2004 - Egyptian Born/Raised in kingdom of Saudi Arabia

SKILLS

Software Development (5+ years of experience)

- **Programming Languages:** C, Python, JavaScript (ES6), TypeScript, Bash, SQL, C++, C#, Kotlin
- **Software:** Unity Game Engine, Figma, Tkinter, Nextjs
- **System-Level Programming:** Expertise in low-level C programming, memory management, file handling, and bit manipulation

Web Development (2+ years of experience)

- **Front-End:** NExtjs, TypeScript, React, Figma
- **Back-End:** Node.js, Flask, SQLAlchemy, Jinja2, Nginx, Gunicorn
- **APIs:** Designing and implementing RESTful APIs
- **Advanced Techniques:** Pagination, caching, internationalization (i18n), authentication, and secure personal data handling

Web3 & Blockchain Development (2+ years)

- **Smart Contracts**: Solidity, Hardhat.
- **Blockchain Platforms**: Ethereum, Polygon, Sepolia Testnet
- **Libraries**: Ethers.js, Web3.js, wagmi, RainbowKit
- **Protocols**: zkLogin, zkSNARKs, zkSTARKs, GKR, IPFS integration
- **Infrastructure**: Contract deployment, wallet integration (MetaMask), on-chain/off-chain interaction design
- **Security**: Signature verification, proof validation, transaction audits

AI & Machine Learning (2+ years)

- **Libraries**: TensorFlow.js, OpenAI API, DeepSeek, Gemini, Pydantic Agents
- **Applications**: AI-generated quizzes, biometric performance analytics, NLP-based document parsing
- **Techniques**: Text summarization, MCQ generation, model inference in browser, data chunking and embedding
- **Deployment**: Integration of AI pipelines in full-stack dApps (Flask/Next.js)

DevOps & Infrastructure (1+ year experience)

- **Automation Tools**: Docker, GitHub Actions, Puppet
- **Server Management**: Deployment of raw server applications, configuring domain connections, and load balancing
- **Networking & Security**: SSH, SSL/TLS, HTTP/HTTPS, and basic firewall configurations

Mechanical Engineering (2 year experience)

- **3D Designing SolidWorks & Blender**
- **Mechanical/Thermal Stress Analysis**
- **Embed Mechanical Systems Arduino & ESP32**

Other

- **Team Leadership** (SE Face off challenge & GDG hackathon)
- **Collaboration & Professional Development:** Strong technical writing, time management, public speaking, peer mentoring
- **Soft Skills:** Effective communication, teamwork, and Competitive problem-solving