OLEKSANDR KARPINSKYI

AI / Blockchain & Full Stack Engineer

OBJECTIVE

- 2 Years with AI / ML Expertise

Leveraging AI libraries and tools like OpenAI, ChatGPT, Cursor, Blot, Anthropic, and other AI frameworks to build intelligent applications. Expertise in integrating conversational AI, predictive models, and data-driven solutions for businesses. Skilled in designing efficient pipelines for natural language processing, computer vision, and recommendation systems.

- 4 Years with Blockchain

Certified by MANGTAS, with expertise in developing fungible and non-fungible tokens (NFTs) on EVM and Solana networks. Possess extensive experience in building and deploying decentralized exchanges (DEX), DeFi platforms, and DApps, including stablecoin launches with minting and burning mechanisms, as well as functionalities for swapping, staking, market platforms, bridges, proxy contracts, and yield farming. Skilled in designing secure and scalable smart contracts using Solidity and Rust, and in creating responsive, Web3-integrated frontend applications using Web3.js and Ethers.js.

- 8 Years with Full Stack

Experienced Frontend and Backend Developer with a proven track record of building websites across diverse domains, including e-commerce, social platforms, education, delivery services, tax management, and personal banners. Proficient in developing robust applications using modern frameworks and technologies such as ReactJS, NextJS, NodeJS, and Laravel.

WORK EXPERIENCE

AI / Blockchain & Full Stack Engineer — Fetch.ai

May 2024 - Present

Fetch.ai is an AI and blockchain-focused company creating autonomous agent technology to solve complex coordination challenges.

- Developed and deployed conversational AI systems using OpenAI's GPT models, powering automated customer service solutions integrated into full-stack applications with React.js and Node.js.
- Built end-to-end solutions integrating advanced recommendation algorithms and predictive modeling into Fetch.ai's agent-based platform, leveraging Python for AI/ML components and React.js for user interfaces.
- Designed and implemented an AI-powered knowledge graph to enhance context awareness and agent collaboration in decentralized ecosystems, with robust APIs built using Express.js and Flask.
- Automated workflows using Cursor and Anthropic, achieving a 30% reduction in time-to-market for AI solutions.
- Designed intuitive dashboards and data visualization tools using Next.js and Chart.js, enabling seamless interaction with AI agents.
- Created scalable and secure blockchain integrations using Solidity and Rust to support AI-driven decentralized applications.

Technologies Used:

OpenAI · Cursor · Python · ReactJS · NextJS · NodeJS

Blockchain Full Stack Developer — EG Global

Mar 2022 - April 2024

EG is a tech startup and cryptocurrency redefining philanthropy. The first social impact movement powered by the blockchain.

- Smart Contract for launching **Gator Gang** nft collection with presale, public sale, airdropping on Binance Smart Chain.
- Smart Contract for pool based **Burn Token** events which is managed by users with time and amount on EVM and Terra network.
- Smart Contract for token based betting named **Heads or Tails** with predicting future events by questions and answers on Binance Smart Chain.
- Smart Contract for launching **EGv2** token presale, add liquidity pool, airdrop on Binance Smart Chain.
- Smart Contract for migrating **EGv1 to EGv2** on Binance Smart Chain.
- Smart Contract for **Staking** Gator Gang NFT collection on Binance Smart Chain.
- Website and Smart Contract for **Dex Swap** named EGSwap

Technologies used:

Solidity · Rust · ZKP · Chainlink · HardHat · NodeJS

Senior Frontend & Web3 Developer — Harvest Finance

Jan 2020 - Feb 2022

Harvest Finance is a DeFi protocol that allows users to get the best yield on their crypto assets. The protocol is built on top of the Compound protocol and uses the same smart contracts.

- Designed and implemented the next-generation web frontend UI, Harvest v3, delivering an improved user experience.
- Developed advanced search filters for enhanced discoverability, allowing users to filter by Token, Network, Farm, and DeFi protocols.
- Engineered dynamic and flexible charts for each farm, showcasing historical data on Total Value Locked (TVL) and token price trends.
- Conducted in-depth research and integrated Web3 functionalities to onboard new farms and pools from emerging DeFi protocols.
- Upgraded the web backend to support new liquidity pools across multiple blockchain networks.
- Managed DevOps processes for the staging environment, ensuring seamless deployment and operational efficiency for both the frontend and backend systems.

Technologies used:

DEFI · LP · Web3 · React · NodeJS

Senior Software Engineer — LivePeer

Aug 2017 - Mar 2019

Livepeer is a decentralized video streaming / transcoding network built on the Ethereum network.

- Developed and deployed smart contracts leveraging Livepeer's native token (LPT) to enable decentralized video streaming and incentivization mechanisms
- Designed and implemented a robust Web API for seamless video streaming, integrating Livepeer's transcoding and delivery capabilities.
- Built and maintained a user-friendly and responsive frontend for the video streaming platform using Next.js, delivering a high-quality user experience

Technologies used:

SmartContracts · Blockchain · NextJS · NodeJS

Full Stack Developer — VisioLogix

Aug 2015 - Jul 2017

VisioLogix Corporation is a technology company focused on video capture and large data management solutions for fixed and mobile assets for both on premise and cloud. VisioLogix has been providing unsurpassed customer care and innovative products for transportation, law enforcement and private security since 2004.

- Implemented advanced object detection and video blurring algorithms to enhance privacy and security in video streams.
- Developed audio-to-text transcription solutions for recorded content, utilizing state-of-the-art speech recognition technologies.
- Designed and built comprehensive web platforms for selecting, editing, and rendering videos, ensuring an intuitive user experience and efficient workflows.

Technologies used:

React · Django · OpenCV · NodeJS · PostgresSQL

SKILLS & TOOLS

AI & Machine Learning

- Python
- ChatGPT
- Anthropic
- Cursor

Blockchain

- Solidity
- Rust
- Golang
- C/C++

Full Stack

- React
- NodeJS
- NextJS
- Laravel

Others

GCP · Azure · Amazon · Raspberry PI · Devops

EDUCATION

Bachelor's degree in Computer Science
National Aviation University
2011 - 2014

LANGUAGE

English (Professional)

Ukrainian (Basic)

INTERESTS

Climbing
Snowboarding
Cooking