# Madhur Gupta

Blockchain & Python Developer
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## PROFESSIONAL SUMMARY

Blockchain and Python Developer with hands-on experience in building trading systems, smart contracts, and DeFi analytics tools. Strong proficiency in Python, web3 frameworks, and EVM/Solana environments. Adept in modular backend development, smart contract integration, and on-chain data analysis. Passionate about Web3 ecosystems and developing scalable blockchain-based solutions.

## SKILLS

- Programming Languages: Python, JavaScript, TypeScript, Java, Cython, HTML/CSS.
- Frameworks & Libraries: Django, Flask, FastAPI, PyScript, web3.py, ethers.js, solders, anchorpy.
- Blockchain & Web3: Solidity, smart contracts (ERC-20), staking, tokenomics, MetaMask, Phantom, Solana.
- DevOps & CI/CD**:** Docker, GitLab CI/CD, Azure DevOps, Automation, Version Control.
- Databases: PostgreSQL, MongoDB, Supabase, SQLite, SQL.
- Analytics: On-chain data extraction, wallet tracking, yield strategy modeling.

## WORK EXPERIENCE

**Junior Developer, DegenFund** **July 2025 – Present**

- Transitioned from intern to junior developer, continuing with core research and smart contract development.
- Used the **ACP SDK** by Virtuals to register and list my autonomous agent on the **Agent Commerce Protocol (ACP)** network.
- Enabled the agent to discover other agents, initiate and respond to jobs, and process transactions on the **Base Mainnet.**
- Integrated on-chain functionality to handle service payments and job flows via smart contracts using wallet and evaluator modules.
- Focused on real-world agent interactions with secure blockchain transactions and service offering management through the Service Registry.

**Software Engineer Intern , DegenFund** **Oct 2024 – Jan 2025**

- Collaborated with a DeFi hedge fund to design and backtest trading strategies on EVM chains.
- Built custom wallet and transaction modules with validator and RPC support using Python, JavaScript, solders, and anchorpy.
- Created **AlphaScan**, a wallet intelligence system to monitor HNI wallet activity and identify high-potential tokens in real-time.
- Achieved 30–40% prediction accuracy using custom algorithms, along with risk-weighted filtering and token classification logic.

## PROJECTS

**KyberSwaping APIs Toolkit** **Feb 2025 – Mar 2025**

*Python, JavaScript, solders, anchorpy*

- Built a Solana-based toolkit integrating Jupiter Aggregator , KyberSwaping Aggregator and Jito Labs APIs.
- Developed wallet/transaction modules with custom RPC support and validator integration.
- Enabled token swaps, bundling, and priority transaction routing.

**AlphaScan – Wallet Tracker & Predictor** **Oct 2024 – Jan 2025**

*Python, TypeScript*

- Designed a system to track HNI wallet patterns and detect high-potential tokens.
- Maintained real-time monitoring for wallet and token movement.
- Achieved a 30–40% signal success rate using custom prediction algorithms.
- Integrated cost-multiplier logic and token classification for risk-weighted filtering.

## EDUCATION

**JSS Academy of Technical Education, Noida** **2021 – 2025**

Bachelor of Technology in Electronics and Communication Engineering