

Mickael RUTEMBYA - Full Stack Developer - Data Scientist - Blockchain Developer

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In a tech-driven world, finding someone with healthcare expertise, blockchain proficiency, and a strong privacy commitment is rare, but I am one of the exception. With hands-on healthcare experience, deep blockchain insights, and a fervent drive for data security, I have the skills and passion to make a difference. Over 50 personal projects showcase my self-driven learning and innovative problem-solving abilities, while numerous hackathon victories validate my capabilities. My coding journey has spanned years, diving deep into diverse programming tools and engaging with industry leaders as an after-work passion. This broad skillset, coupled with my adaptability and willingness to use both emerging and established tools, positions me as a valuable asset, especially at the intersection of healthcare, privacy, and a more decentralized governance system.

Skills

- **Languages:** Python, Solidity, Rust, PostgreSQL, R, HTML, Bash, Shell, Git, JavaScript, React, Yul Assembly, Markdown.
- **Web & Data:** BeautifulSoup, Scrapy, Pandas, Matplotlib, Seaborn, Plotly, Django, PySpark, Selenium.
- **NLP:** NLTK, SpaCy, BERT, Rasa NLU.
- **AI & Deep Learning:** NumPy, TensorFlow, Scikit-learn, PyTorch, Keras, langChain, llamaIndex, OpenAIApi, Darknet, YoloV4.
- **Blockchain:** Hardhat, Foundry, Solidity, Rust, Achor Framework, Cairo, Noirlang, Zocrates.
- **Automation & Testing:** Airflow, Celery, Pytest, TDD.
- **Image & OCR:** OpenCV, Tesseract, OCR, Google Vision.
- **Other Tools:** SciPy, Jupyter, Parquet, Docker, Google Cloud Platform, Heroku, Gitlab, Ansible.

I have completed over 50 data science projects, with the majority being private. If you're curious about specific Python-related capabilities, please reach out to me on LinkedIn. I can potentially offer a customized demonstration aligned with your requirements

Professional Experience

- **Full Stack Developer & Architect:**
 - Conducted an in-depth investigation to identify project needs and opportunities, resulting in a clear vision of objectives.
 - Devised a planning strategy to outline steps, necessary resources, and timelines, ensuring efficient execution.
 - Provided expert advice on planning, refining the strategy to better address identified challenges.
- **Blockchain Security Smart Contract Auditor:** Pro Bono Auditor for REACH.
- **Pharmaceutical Expertise:** *Paris and Strasbourg*
 - Helped between 60 to 120 patients daily on their prescriptions, over-the-counter products, and other health concerns ; Trained multiple junior pharmacy students and pharmacy assistant ; Undertook at moment sole management responsibilities in pharmacies during COVID.

- Optimized the IT systems : Performed an audit on the IT systems ; Optimized the Chrome Browser ; Developed 15 batch/Python scripts between patient that resulted in a ability by the team to process tasks faster.
- Hospital Pharmacy Support:** *Extern to the Pharmacy Department at Centre Hospitalo-Universitaire de Strasbourg*
 - Conducted 200 pharmaceutical analyses ; Optimized 4 medication reviews ; Performed 150 quality controls of radiopharmaceutical drugs ; Presented 1 clinical case ; completed 3 dissertations.
- Digital Marketing Enthusiast:**
 - Pursued an entrepreneurial academic focus, specializing in digital marketing strategies tailored for pharmacies : semrush, seo, facebook pixel, google analytics.

Education

- Solidity Expert Bootcamp** - [curriculum description](#) - [certificate](#).
- Zero Knowledge Bootcamp** - [curriculum description](#) - [certificate](#).
- Solana Bootcamp** - [curriculum description](#) - [certificate](#).
- Solidity Bootcamp** - [curriculum description](#) - [certificate](#).
- Coursera - Blockchain Specialization** from New York University : [certificate](#).
- Programming - Self-Study** 4y: Mostly Python Programming - Data Science, Machine Learning, ETL Pipelines, File Management, Data mining.
- Faculté de Pharmacie de Strasbourg** 6y.
- High School - Graduation with a Scientific Baccalaureate, Life Science with specialization in Mathematics.

Certifications and Courses

- TokenEngineering Academy** - [certificate](#) :
design tokenized ecosystems to try to simulate specific economic and social objectives within decentralized networks using policies, finance tools and programming with python(cadCAD) or solidity(TokenSPICE).
 - Fundamentals Module 1 – Introduction to Token Engineering.
 - Fundamentals Module 2 - Token Engineering Process: Discovery Phase.
 - NFT-based Reputation in Web3.
- C2i level 2 certification in health Informatics**
- Coursera - Blockchain Specialization by NYU.
- [Encode Club x Chainlink Bootcamp](#) - [certificate](#).

Projects

Category	Projects
FullStackProject(Blockchain)	DecentralizedExchangeDapp1 LotteryDapp1 DecentralizedLendingBorrowingOnSolana
DataScience	DataMining CryptographyDataScienceWay TokenEngineeringModule3
LargeLanguageModels(ChatGPT&Friends)	LLM Chatbot2LocalBlockchainCoach
DevOps	LLMMobileWebGitlab
SysAdmin	RustFileScrawler

Hackathons

- **EthCC Hacker House Hackathon:** Secured an award for [!\[\]\(6302aad5aed157b291fddf37b4870784_img.jpg\) Best Implementation of the Threshold Network](#) as the sole developer.
- Participated in **FrenchEventBooster Hackathon**.
- **Hacking Health Camp:** Clinched *Best Innovation in Healthcare* award.

Languages: Fluent in French; English.

Interests

- Long-standing member of the '**Réussir Aujourd'hui**' association.
- **Hobbies:** Traditional drawing, Soccer, Art films, Photography, Art & Design.
- **Topics of Interest:** Health, Nutrition nerd, Economics, System Security, Psychology.