Patryk Lezon

Junior Software Engineer
plezo@protonmail.com 917-635-0144 New York City, USA

Profile Summary

- Junior Software Engineer experienced in building and deploying full stack solutions. Well versed in Object-Oriented Programming (OOP), Data Structures & Algorithms, Machine Learning & AI, as well as web3 technologies.
- Full-stack developer with a strong command of programming languages including JavaScript, Python, Java, and C/C++. Proficient in designing UIs with React, writing server-side code and building APIs, and manipulating SQL & NoSQL databases. Solid understanding of Authentication, Security, and version control.

Education

Hunter College NYC
B.A. in Computer Science (Math minor)
New York City, NY, 2019-2022 **GPA: 3.15/4.0**
Coursework: Math minor - Data Structures and Algorithms, AI, Databases, Linear Algebra, Multivariate Calculus, Probability Theory, Differential Calculus

iXperience Data Science Bootcamp
Remote, Jul. 2021 - Aug. 2021

Technical skills

Languages: JavaScript, Python, C/C++, Java, SQL, Solidity, HTML/CSS
JavaScript stack: **FE Framework:** React / **Libraries:** Electron / **Back-end:** Node.js, Express.js, React Router
Python stack: **Libraries:** NumPy, Keras / **Data:** Pandas / **ML**: Sci-kit Learn
Databases: **SQL:** MySQL, PostgreSQL / **NoSQL:** MongoDB, Neo4j
Dev Tools: Git, Postman, Docker

Languages

English: Fluent **Polish**: Native level

Professional Experience

Differential Capital Data Science (Intern)

Johannesburg, South Africa Jul. 2021 - Aug. 2021

- Participated in the technical effort of a Hedge Fund by implementing Machine Learning algorithms, delivering clean and scalable code in Python, and leveraging libraries such as Scikit-Learn, Keras, NumPy and Pandas.
- Worked and collaborated within a pluridisciplinary team including [Stakeholder 1] and [Stakeholder 2].
- Thoroughly assessed and defined technical requirements, to design a system architecture optimized for speed and scalability, with clarity on time, cost and impact.
- Conducted exploratory data analysis on large datasets and performed data cleaning. Leverage a wide array of algorithms to test hypotheses, evaluate models and tune hyperparameters. Deployed models, before optimizing and monitoring performance in a production environment.
- Designed and implemented a python package for feature engineering the dataset, preprocessing the dataset, optimizing the model with multithreading and generating metrics off the results.

Projects Experience

MNTR

Apr. 2022- Jun. 2022

- Delivered a desktop application allowing users to mint from any ERC721 smart contract, as well as storing profiles for several wallets to mass mint.
- Built a user-friendly UI with React and utilized the Electron.js library to build the desktop app. Developed an efficient back-end with Node.js.

NFT

Mar. 2022- Jun. 2022

- Contains 2 NFT's being Warriors and Land. Users interact with the gas optimized staking contract with their two NFT's to either train their warriors or harvest ERC20 token $RESOURCE depending on what action was selected. (Solidity, Node.js, hardhat, ethers, web3, chai).

Zelus (Capstone Project)

Sept. 2021- Dec. 2021

- Conceptualized and delivered a web-based workout tracking web & mobile application where users can save and share workout templates.
- Coded using best practices of HTML5, key & advanced functionalities of CSS3 (Flexbox, Grid, animations, CSS variables and Sass), ensuring responsiveness and optimizing for accessibility and performance.
- Crafted an engaging user experience with React and React Native as a front-end framework, allowing for dynamic rendering of modern UI components.
- Built an Express server on Node.js, for rapid scalability and implementation by using JS on both sides of the stack.
- Utilized PostgreSQL as a Relational Database Management System, wrote schemas and designed an API allowing users to perform CRUD operations on workout data.

Virtue Quant

Aug. 2021- Oct. 2021

- Analyzed financial cryptocurrency data using ML to predict trends, using Python, Sci-kit Learn, NumPy and Pandas.

Mynt Finance (24 Hour Hackathon Winner)

Jan. 2021- Jan. 2021

- Designed and implemented a stock portfolio application, allowing users to visualize their stock holdings, utilizing React in the front-end and Node.js on the server-side.