Emir Öngörür

Türkiye

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ABOUT ME

Passionate and dedicated software developer with a strong commitment to continuous learning and staying up-to-date with the latest technologies. Experienced in front-end development using React and Vue.js, and proficient in backend technologies like Express.js. I have a solid understanding of both relational and non-relational databases. My primary skills include TypeScript, React, Node.js, and Python. I excel at delivering projects on time with a focus on clean code principles and performance optimization. I thrive in environments that encourage innovation and have a keen interest in blockchain technology, particularly in Solidity smart contracts and zero-knowledge (zk) proofs. I am driven to become an open-source core contributor as I advance in my career, leveraging my expertise to contribute to the cutting edge of decentralized systems.

EDUCATION

Bandirma Onyedi Eylul University   Balikesir, Türkiye
Computer Engineering (BE)   *Aug. 2020 – Aug 2024*

EXPERIENCE

Software Developer Internship   May 2023 – Sep 2023
Atakum Municipality   *Türkiye*

- Developed a REST API using Express.js to interact with a PostgreSQL database, efficiently managing data for a library management system.
- Developed a web interface using Next.js to display real-time data on the library's occupancy rate.
- Implemented YOLO detection in Python to accurately identify empty seats within the library, contributing to an automated system that tracks and displays the library's occupancy rate.
- Participated in code reviews and agile development processes to maintain high-quality code standards and ensure the timely delivery of features.
- Contributed to building a scalable and robust solution, ensuring that the project could handle increasing demand and expanding functionality as needed.
- Developed a script to automate PDF editing, enabling the search and replacement of specific words with custom logos and text without disrupting the document's original layout.

PROJECTS

BiFrost | *TypeScript/JavaScript, NodeJs, React, MaterialUI, MongoDB, Tailwind, Next.js, Git*

- Developed a full-stack web application using Express.js for the REST API and Next.js for the frontend.
- Created deposit, borrowing, and repayment contracts in Solidity to ensure secure and efficient management of decentralized financial transactions on the blockchain.
- Designed and optimized a decentralized application (DApp) architecture, resulting in increased system performance and enhanced scalability.
- Developed and managed MongoDB collections to store and manage unstructured and semi-structured data effectively.

Sybil Hunter Tool | *Etherscan API, Python, React, NodeJs*

- Implemented data preprocessing methods in Python to clean and structure Ethereum blockchain transaction data retrieved via the Etherscan API.
- Created and visualized complex network graphs using the NetworkX library, mapping account interactions and conducting searches for significant patterns such as cycle patterns and chain-like attacks.
- Implemented and optimized graph search algorithms to enhance the detection of suspicious activity, leading to more efficient identification of potential Sybil clusters.
- Performed in-depth analysis of detected clusters, evaluating their characteristics and assessing their applicability for machine learning models in detecting and mitigating Sybil attacks.

Social Network Analysis of Book Series | *Networkx, Pyvis, Python*

- Created network graphs in Python using the NetworkX library with data sourced from Kaggle, enabling the analysis of various centrality measures such as closeness centrality, betweenness centrality, and degree centrality.
- Utilized the PyVis library to visualize network measurements, providing clear insights into the structure and dynamics of the graph.
- Performed community detection analyses using algorithms like Louvain, and evaluated the effectiveness of the detected communities based on specific metrics.
- Conducted in-depth evaluations of algorithms such as PageRank, analyzing their effectiveness in ranking nodes within the network based on their importance and connectivity, and comparing the results with other centrality measures to determine the most accurate representation of node influence.

TECHNICAL SKILLS

Languages: Turkish(Native), English(C1)
Programming Languages: Python, TypeScript/JavaScript, C# ,Rust, Go, SQL, HTML/CSS,
Frameworks: Express.js, Flask, Next.js, Remix
Database: MongoDB, MySQL, PostgreSQL
Developer Tools: Git, Docker, Kubernetes, Hardhat, Foundry
Libraries:PyTorch,TensorFlow,React,web3.js,Pandas,Numpy,Ether.js