

SIMON ROOPE Full Stack DeFi Blockchain Developer

London Tel: +44 (0)7967 655594 Email: simonroope@gmail.com

Full Stack DeFi Blockchain Developer, Didobi

Nov 2019 - Current

Ethereum, Solidity, Remix, Hardhat, Truffle, Web3, Ethers, OpenZeppelin, Azure, React, Javascript

Commercial Real Estate Independent Strategy and Data Consultants.

- Designed and built decentralised Blockchain application on the Ethereum network to digitally manage real estate fund ownership and non-fungible assets. The NFTs create secondary markets, liquidity, enhanced fund compliance, transparency and lower costs of investor onboarding and income distribution.
- Developed NFT smart contracts with ERC20, ERC721 & ERC1155 tokens, OpenZeppelin implementations, proxy contracts and integration with external Chainlink oracles, IPFS and Polygon Layer 2 scaling.
- Sound understanding of the EVM, gas optimisation tradeoffs and security best practices.
- Developed and deployed Solidity smart contracts using Remix IDE, Ganache, Truffle and Hardhat frameworks.
- Designed, coded, tested and deployed Solidity smart contracts on testnets, Binance and Ethereum mainnet.
- Built decentralised cryptocurrency exchange, with ERC20 token integration of multiple Ethereum tokens.
- Created DeFi smart contracts for ICO coin issues, Uniswap fork, yield farming, liquidity pools, arbitrage and flashloans.
- Designed and built property asset management web application. Incorporated complex interactive Javascript data visualisations, GraphQL and external REST APIs.

Full Stack & Database Developer, Fidelity International

Sept 2008 – Nov 2019

Oracle, OBIEE, PowerBI, Cassandra, Snowflake, AWS, Python, Spark, Plotly, Javascript

Technical lead on award winning Commercial Real Estate investment management and analytics platforms.

- Designed and built asset management BI portal on Oracle platform. The federated data sources included asset performance data, tenant schedules, fund NAV and industry benchmarks, market forecasts, comparatives data, tenant default risk and Monte Carlo income simulations.
- Engineered Big Data platform for advanced Real Estate analytics, quant and financial modelling. Incorporated machine learning, geospatial analysis, Markowitz portfolio optimisation and ongoing backtesting of data.
- Built complex and interactive data visualisation dashboards, reports and charts with OBIEE, PowerBI, SQL, HTML, CSS and Javascript.
- Worked with local and offshore development and testing teams, adhering to Agile methodologies.
- Experienced working with open-source and AWS cloud technologies.

Oracle DBA, Royal Bank of Scotland

Mar 2008 – Aug 2008

Global Banking & Markets Operations.

- Administered and supported business critical, high availability credit risk production databases.
- Optimised database SQL and wrote PL/SQL solutions for application development teams.

Oracle Data Architect/Developer, Fidelity International

Jun 2006 – Mar 2008

The UK's largest investment fund business, with £140 billion assets under management.

- Defined the system architecture, logical and physical design of 1TB Mutual Funds data warehouse.
- Designed and built the database dimensional model, ETL procedures and BI interface.

Oracle DBA, CMC Markets plc

Mar 2006 – Jun 2006

Global leader in online equity derivatives trading; Foreign Exchange, CFD & Financial Spread Betting.

- Responsible for the build, configuration, administration and 24x7 support of production trading databases.
- Performance tuned and optimised high volume, low latency critical web applications.

Oracle Development DBA, Centrica Storage Ltd

Jun 2005 – Mar 2006

Offshore gas storage facilitators, with regulated business critical systems demanding high availability.

- Responsible for administration and support of Oracle & SQL Server production databases.
- Built database layer for web stack monitoring real-time gas feed metrics.

Oracle Developer, Nectar Loyalty Ltd

Aug 2003 – May 2005

Nectar, with 12M users and 60M monthly transactions is the UK's largest loyalty card programme.

- Created data warehouse logical and physical model and optimised design of star schema data marts.
- Developed parallel data loads, bespoke SQL reports and interface with geospatial and analytic applications.