

Robert (Rob) Netzke

Software Engineer

I am an experienced data scientist and software engineer, I am highly adaptable to new software frameworks, I am self-taught in many topics including: React, HTML, CSS, NodeJS, Bitcoin, and the Lightning Network, I lean into challenges, and I love working in a team

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WORK EXPERIENCE

Machine Learning Engineer (Jr) Viant Technologies

12/2021 - 08/2022

Irvine, CA

Up and coming ad-tech company

Tasks

- Build rigid end-to-end deep-learning predictive models utilizing the Keras functional API and Tensorflow modules
- Refactor code from existing models and data pipelines to reduce time and space complexity and to improve latency
- Leverage tools such as Google BigQuery, CLI, AI Platform, etc. to train models efficiently and asynchronously

Data and Modeling Intern Arizona State University Enterprise Partners

04/2021 - 08/2021

Tempe, AZ

Portfolio managers of the ASU endowment

Tasks

- Perform regression analysis on ASU foundation's equity investments to quantify risk across various factors
- Utilize the Bloomberg Terminal and Bloomberg API to streamline factor and risk analysis with Excel + ipynb
- Analyze sector exposures and research macroeconomic trends to ensure tactical deployment of endowments

Undergraduate Student Instructor EE/Computer Science Department, UC Berkeley

08/2020 - 01/2021

Berkeley, CA

Achievements/Tasks

- Lecture on course concepts and assist students in solving conceptual and computational problems or questions
- Convey methods of data analytics to students including Nearest-Neighbor algorithms and hypothesis testing
- Develop student understanding of Python techniques by explaining basic to intermediate methods of coding

EDUCATION

BA, Applied Mathematics; BA, Data Science University of California, Berkeley

08/2017 - 08/2021

Cumulative GPA: 3.5

Courses

- Deep Learning
- Econometrics
- Time Series
- Computer Programming

SKILLS

Python

Tensorflow

TailwindCSS

ReactJS

BigQuery

Google AI Platform

AWS

NodeJS

PERSONAL PROJECTS

Ad-less News Web Application (12/2022 - 01/2023)

- Searches for news from thousands of publications using a keyword
- Introduces micropayments for news searches using the Strike API
- Built with React, NewsAPI, Strike API, tailwind CSS, and Node

Developer Launch Page (01/2023 - 01/2023)

- Displays essential information like current weather and stock prices
- Links to crucial developer tools and allows for custom preferences
- Built with React, OpenWeatherAPI, TwelveData, tailwind, and Node

Modeling and Exploration of Nuclear Binding Energies (08/2022 - 09/2022)

- Research the theory and implications of strongly bound nuclei
- Train a model to estimate binding energies for arbitrary nuclei
- Compile research, code, and findings into a comprehensive report

BOOKS

The Man Who Solved the Market

On the life of Jim Simons, the greatest quant trader of all time

Atomic Habits

On engineering your surroundings and mentality to achieve your goals

Mastering the Lightning Network

A technical discussion of a layer two Bitcoin scaling solution. Involves internet protocol, encryption, game theory, and more nerdy topics

The Bitcoin Standard

A discussion of Austrian Economics, the history of money and associated policy, and the case for Bitcoin

INTERESTS

Football

Diet and Health

San Diego Padres

Options Trading

Austrian Economics

Competitive Gaming

Weight Training and Calisthenics