

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

✉ rob.netzke@gmail.com

📞 858-761-4749

📍 San Diego

🌐 linkedin.com/in/robert-netzke

WORK EXPERIENCE

Machine Learning Engineer (Jr)

Viant Technologies

12/2021 - 08/2022

Irvine, CA

Up and coming ad-tech company

Tasks

- Program end-to-end deep-learning predictive models utilizing the keras functional api and tensorflow modules
- Build robust PyTorch sequence generation models by implementing transfer learning libraries such as OpenAI
- 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
- Time Series
- Econometrics
- Computer Programming

SKILLS

Python

Tensorflow

Pandas

React

PyTorch

BigQuery

Google AI Platform

HTML/CSS

PERSONAL PROJECTS

Ad-less News Web Application (12/2022 - Present)

- Search for news from thousands of publications using a keyword
- Introduce micropayments for news searches using the Strike API
- Built with React, NewsAPI, Strike API, tailwind CSS, and NodeJS

Option Arbitrage Algorithms (09/2022 - 10/2022)

- Research, understand, and implement option arbitrage algorithms
- Constrain all algorithms to have $O(N)$ time and space complexity
- Discuss limitations of implementing such algorithms in real-time

Modeling and Exploration of Nuclear Binding Energies (08/2021 - 09/2021)

- 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

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

Flash Boys

On the not-so-moral ways some banks made money with fast information

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