SHAHZEB LAKHANI

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EDUCATION

University of Southern California   Los Angeles, California
Bachelor of Science Computer Science and Business Administration (GPA: 3.90)   August 2022-May 2025
Coursework: Probability and Statistics, Linear Algebra, Data Structures, Algorithms, Discrete Math, Artificial Intelligence

EXPERIENCE

Cerebro Sports   Seattle, Washington
AI Product Engineer   September 2024-Present
- Formulated token economy for beta testers to uncover highest desired features to devise optimal capabilities
- Built and deployed ensemble models using GCP to enhance analytics, improving explained variance by 40%
- Refined chatbot workflows and reduced query latency by 70% to streamline LLM routing of information
- Leveraged Tech: XGBoost, Google Cloud Platform, Vertex AI, Ray Tune, ElasticNet, Pandas

Optiver   Chicago, Illinois
Quantitative Trading Intern   June 2024-August 2024
- Optimized Python scripts to analyze historical market data, uncovering trading insights through high-probability trade setups
- Implemented changepoint detection algorithms to automate trading decisions, enhancing performance under volatile conditions
- Devised strategies and constructed a system to rank and backtest signals leveraging a thoughtfully constructed backend

APIsec.ai (VC Backed Security Company)   San Francisco, California
AI Engineer Intern   May 2023-August 2023
- Coordinated with engineering, product, and AI leads to develop and complete solution to reduce human effort by 90%
- Developed a classifier solution end-to-end by accumulating, transforming, and fitting data, then hosting an API endpoint with created model for DevOps to deploy into production product to allow for efficient access
- Leveraged tech: Optuna, Seaborn, SKLearn, IMBLearn, NLPaug, Gradio, FastAPI, Autokeras, AWS Sagemaker

BurnBot (VC Series A Fire Prevention Technology Company)   San Francisco, California
Software Intern   June 2022-September 2022
- Architected and built an analytics program utilizing commercial forest imaging data, backtesting with a 0.1% false negative rate
- Leveraged tech: Scipy, Rasterio, Geopandas, Jupyter Labs

Veke.co (VC Seed funded 20-Person Stealth Startup)   Issaquah, Washington
Engineering Lead   August 2021-May 2022
- Assembled a fault-tolerant backend using AWS to support 24/7 uptime
- Leveraged tech: Prisma, Typescript, Node.js, SQL, Figma, AWS, Git

LEADERSHIP & INVOLVEMENT

USC Value Investing Group Analyst   February 2023-Present
- Compete in National Stock Pitch Competitions leveraging value investing techniques

USC AI Safety Vice President   February 2023-Present
- Led club teaching AI basics with a focus on safety, discusses research, and attends conferences

International Economics Olympiad Gold Medal Team Captain   January 2022-July 2022
- Led the U.S. National team by designing a course plan on Economic Theory and Macroeconomic events

Mario Kart Wii Reinforcement Learning Agent   August 2022-January 2023
- Utilized Stable Baselines 3 RecurrentPPO algorithm to play Mario Kart Wii tracks and optimize agent for track completion time
- Created an end-to-end system to utilize emulated screen recordings, feeding into a network, simulating keystrokes as actions
- Implemented new reward function and iterated on model architecture to yield a faster agent

SKILLS & CERTIFICATIONS

Node.js, C++, CMake, Linux, Python, Javascript, Java, TensorFlow, scikit-learn, PyTorch, Numpy, Pandas, Matplotlib, AWS, CV, Reinforcement Learning, Typescript, SQL, Figma, Geopandas, Flask, Ruby on Rails, Word2Vec, LLM, Options Theory, Trading