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
- Formulate product strategy, aligning business objectives and technical initiatives to drive targeted growth
- Devise predictive models to enhance product's analytic capabilities, improving explained variance by 40%

Optiver   Chicago, Illinois
Quantitative Trading Intern   June 2024-August 2024
- Wrote scripts and performed data analysis on historic data to inform trading decisions and strategy
- Implemented research methods on changepoint detection to automate trading under volatile market 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 2.6% false negative rate
- Performed large-scale analysis on forest-fire fuel as well as high-risk buildings data to identify potential customers
- Leveraged tech: Scipy, Rasterio, Geopandas, Jupyter Labs

Veke.co (VC Seed funded 20-Person Stealth Startup)   Issaquah, Washington
Engineering Lead   August 2021-May 2022
- Designed a backend using Prisma and SQL to keep track of platform engagement and community metrics
- Assembled a fault-tolerant backend using AWS to support 24/7 uptime
- Raised 100k in seed funding as part of leadership team to acquire funds for development of product
- 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