ROHAN CHILUKURI

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EDUCATION

University of California, Berkeley, California   Class of 2022
B.A. Computer Science/Applied Mathematics, GPA 3.954 (current)
Coursework: Computer Vision, Abstract Algebra, Cryptography, Machine Learning, Algorithms, Optimization, Artificial Intelligence, Data Science, Computer Security, Computer Architecture, Data Structures, Number Theory, Numerical Analysis, Real Analysis, Linear Algebra, Discrete Math and Probability Theory, Multivariable Calculus

EXPERIENCE

Bloomberg L.P.   May 2021 – Aug. 2021
Software Engineering Intern: Developed machine learning models for pricing over-the-counter derivatives in Bloomberg's Multi-Asset Risk System. Improved model stability and accuracy for predicting intraday prices of derivative contracts by determining optimal training data generation and pricing models, retraining models intelligently during the day to combat covariate shift, and implementing differential machine learning. Created streamlined processes for collecting test data, exploring potential models, and assessing production viability.

UC Berkeley EECS Department   August 2020 – Present
TA (Data 100): Grading exams and teaching students in large discussions and in office hours on topics including data visualization and analysis, data cleaning, probability, regression, classifiers, cross-validation, and PCA.
Tutor (Data 8): Grading assignments and teaching students in small groups and in office hours on topics including data visualization and analysis, data cleaning, probability, regression, classification, and A/B testing.

Adobe   May 2020 – Aug. 2020
Cloud Computing Intern: Designed and developed a new web application to efficiently monitor and diagnose issues in Adobe's Global Administration Console, which provides large companies the ability to create, edit, and visualize the allocation and use of Adobe products across their administrative hierarchies. Implemented a "super user" in the Spring Boot backend system, data retrieval APIs that the React application processes and provides insights into the operations of the Console, and bash scripts for automating AWS deployment and maintenance.

Silicon Valley X-Ray   June 2018 – Aug. 2018, May 2019 – Aug. 2019
Software Engineering Intern: Designed and developed a MongoDB database for efficient storage, search, and retrieval of X-Ray images and associated meta-data of semiconductor chip solder pin connections and defects, as well as a software application for graphically displaying and reviewing the results of various image processing algorithms to accelerate defect classification and algorithm development. The database and application are part of a new semiconductor chip inspection system that is being developed by the company.

Independent Research Project   Sept. 2017 – Jan. 2018
Stock Market Timing Research: Analyzed and compared returns from a simple buy-and-hold strategy with seven different market-timing strategies utilizing 147 years of monthly market data to determine whether successful market-timing is consistently possible and what an optimal investment strategy should be for a normal investor.

SKILLS / INTERESTS

Languages: Python, Java, C#, C, C++, MATLAB, JavaScript, HTML/CSS, React, Go, Lisp, RISC-V, Bash
Tools / Technologies: PyTorch, TensorFlow, Scikit-learn, Pandas, MapReduce, Spark, OpenCV, MongoDB, SQL, Microsoft Office, Google Suite
Activities: Upsilon Pi Epsilon (UC Berkeley CS Honor Society), Bowles Hall Residential College Social Events Coordinator, Recreational Golf, Tennis, and Music (Tuba)