NICHOLAS HOBBS

Data Scientist & Software Engineer

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WORK EXPERIENCE

Data Science

Openlattice

📅 October 2018 - November 2019   📍 Redwood City, CA

- Built a new pipeline using python to cut data integration time in half. Worked on data integrations from start to finish, discussing needs with clients, connecting databases for ETL, visualizing and evaluating results
- Built a program for custom, realistic demo data for use testing our deep learning data linking algorithm using object oriented approach

Nightfall AI

📅 May 2018 - October 2018   📍 San Francisco, CA

- Sped up data annotations by over 10x with a custom dashboard built in Flask (python) which enabled use of Regex and simultaneously tagging multiple data elements
- Experimented with various Machine Learning techniques for identifying leakage of API keys, passwords, and other sensitive data
- Worked on an implementation of BERT for flagging potentially abusive comments and messages for intra-corporate communications

Data Science Contractor

📅 January 2019 - May 2019   📍 San Francisco, CA

- **Ample Insight** - used NLP techniques and trie visualization to identify ingredient categories from a large database of purchases
- **Kleimann Communications** - Used VBA macros to automate previously manual process of tagging word documents with comments from interviewers
- **INRI** - Used CNNs to analyze satelite vs ground level images from Kenyan goat herders to create a detailed map of grazing potential in grasslands

Sorenson Impact Center

📅 November 2016 - July 2017   📍 Salt Lake City, UT

- Led a project presenting for First Star on the benefits of providing scholarships, educational support and other support for children who age out of foster care
- Worked on a project to analyze the effects of the Justice Reinvestment Initiative on prison recidivism requested by the Utah Sherrifs Association

Software Engineering

Off-Piste

📅 July 2021 - November 2021   📍 Salt Lake City, UT

- Designed and wrote a smart contract representing a lending pool in Rust, using the Anchor framework on Solana

Openlattice

📅 March 2019 - November 2019   📍 Redwood City, CA

- Worked on creating new API endpoints to make it easier for clients to access relevant data more easily
- Worked on data preprocessing pipeline for significant speed improvements of Socrates, a Deep Learning algorithm for data linking

EDUCATION

B.S. Mathematics and Statistics
University of Utah

📅 2012-2017   📍 Salt Lake City, Utah

- Coursework: Probability, Statistics, Number Theory, Cryptography, Stochastic Processes, Analysis, Game Theory, Differential Equations

Mathematics Exchange Program
Hong Kong University of Science and Technology

📅 Jan - June 2013   📍 Hong Kong

Intensive Chinese Language
Nankai University

📅 June - Sept 2013   📍 Nankai, China

Cybersecurity Training
Evolve Security Academy

📅 Jan - May 2018   📍 Chicago, Illinois

- Obtained Security+ and ESCP certifications

NON-TECHNICAL SKILLS

- Investment: I purchased a house in Salt Lake in October 2020, renovated it and landscaped it, and sold it less than a year later at a 25% profit. I have outperformed the market every year since 2012 as an investor managing my own portfolio
- Politics: I was the youngest National Delegate to the 2012 DNC at age 18. I worked with state senator Jim Dabakis as a co-host on his radio show, campaign manager, and senate intern, in addition to several other jobs in local politics
- Entrepreneurship: I started a cybersecurity consulting firm in 2018, providing compliance consulting and other services for start up companies and law firms. A presentation I gave on security for non-technical people was voted to be the best at a national conference for lawyers and real estate agents. I started a business tutoring students in Math and Standardized Tests. I have sold various products online using social media, from one off artwork to FBA white label goods.

TECHNICAL SKILLS

Python   SQL   R   Machine Learning
Linux   Docker   Rust   Web App Hacking
AWS   iOs   NLP   HTML/CSS/JS
svelte   d3