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Orlando, Florida, 32819 407-818-6608 branisk@protonmail.com github.com/branisk Education **University of Central Florida** Orlando, FL Dec 2022 Bachelor of Science in Computational Mathematics **Relevant Courses:** Computer Science 2, Linear Algebra, Advanced Calculus, Differential Equations 2, Statistical Theory, Mathematics in Machine Learning, Machine Learning Algorithms, Numerical Methods, Cryptography, Abstract Algebra, Differential Geometry, Nonlinear Dynamics, Physics 2 **Extracurricular:** Mathematical Modeling Competition (MCM 2020) Problem D - Successful Participant Feb 2020 Jan 2020-AI @ UCF Club (Projects / Research) May 2022 **Professional Experience Decentralized Foundation (DEFO)** Jan 2022-Dec 2022 Data Analyst Developed token economics and mechanics for a Web3 decentralized finance protocol Researched web3 technology and related cutting edge topics Used Python to build simulations into dashboards for parameter optimization and visualization Modeled price action, sustainability, returns, and other results algebraically and computationally **Projects** Resale Tool using Feature Extraction with NLP Jun 2022-Python tool which scrapes PC listings from online marketplaces using the Selenium package Aug 2022 Specific computer features are extracted using NLP with pandas and scikitlearn Financial metrics are calculated from observed results, and used to determine whether a particular listing is worth investing in, along with expected profits from those investments **Marketplace Automation Tool** Python tool which automates tasks related to online marketplaces, such as listing, deleting, updating, and bidding, using selenium, playwright, pyautogui, beautifulsoup, and appium packages on web and mobile applications Dec 2021-A web app was built to connect these tools to a user interface using Django with html and css Feb 2022 **Support Vector Machine from Scratch** A python implementation of the Support Vector Classifier algorithm and Principle Component Analysis using only the numpy package for numerical computation Nov 2021-A dashboard was built using pyplot Dash framework in order to visualize results, change Dec 2021 parameters, easily upload arbitrary datasets, and visualize the model during training Algorithmic Blockchain Trader A python tool which used Web3.py to connect directly to the blockchain, and access various July 2021decentralized exchanges such as Uniswap to gather real time financial market data Aug 2021 Trading algorithms are built directly into the script to make long and short decisions based on observed patterns and statistical methods **API Driven OSRS Bot (Corrupted Gauntlet)** Dec 2020-A java program that injects into a gaming client to perform automation of a nontryial task based on procedural possibilities in a time restrained environment **Skills**

Programming: Python, SQL, Matlab, Java, C, HTML, CSS, Javascript, Solidity

Operating Systems: Linux, Windows

Other: Excel, Github, LATEX, Jupyter Notebooks, Office Tools