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Education

The Pennsylvania State University — Schreyer Honors College

University Park

College of Engineering August 2019 - May 2023

• **GPA:** 3.98/4.00

• Majors: B.S. in Computer Science and Statistics

- Current Coursework: Data Structures and Algorithms, Stochastic Modeling, Regression, Topics in Mathematics with Applications in Finance (MIT OCW)
- · Past Coursework: Deep Learning Algorithms and Analysis, Probability, Honors Linear Algebra, Honors Vector Calculus

Skills

Languages Python, R, Java, JavaScript, C#, SQL

Frameworks Flask, Jupyter Notebooks, NumPy, Pandas, PyTorch

Tools Git, LaTeX, Linux, Illustrator, Excel

Interests Graphic Design, eSports, Ricing, Guzheng

Experience _____

Blockchain@PSU

State College, PA

HEAD OF EDUCATION September 2019 - Present

 Taught and drafted curriculum for entry-level weekly workshop in JavaScript and Solidity teaching the foundational theory of blockchains and smart contracts, using template code and a GitHub repository to help students understand and refer to past material, concepts, and projects

· Designed new workshops and marketing material to drive engagement in educational sessions and other organizational events, including a case competition

Deacom, Inc Chesterbrook, PA

SOFTWARE DEVELOPMENT INTERN

May 2019 - June 2019

- Updated and debugged training ERP platform repository in C# for new hires and interns, implementing common version control practices and proper code style
- Shadowed developers and learned workflow in maintaining work product through debugging, running unit tests and fulfilling customer needs

SAP America Newtown Square, PA

CENTER OF EXCELLENCE INTERN

June 2018 - August 2018

- Created proof-of-concept stock price projection skill using R backend, funneled through SAP HANA and AWS Lambda, and accepting input through an Alexa skill
- Developed and taught machine learning support vector regression component in R to high school students for a week, using Agile to maintain communication

Projects _____

Kowalski

SIDE PROJECT

August 2020 - Present

- Finds financial information from Yahoo Finance—including price history, financial statements and common technicals—and displays information as text and images through a Discord bot responding to user commands, with constant uptime
- · Requests information through Python interface to Discord API, obtained by scraping site source code, with changes pushed to Heroku using Git

Multigrid Neural Network and Convolutional Neural Network

Deep Learning

CLASS PROJECT (DEEP LEARNING ALGORITHMS AND ANALYSIS)

May 2020 - June 2020

- · Classifies images in CIFAR10 dataset using supervised learning, implemented with both a convolutional neural network (CNN) or multigrid neural network (MgNet)
- · Builds both neural networks with Python and PyTorch, run in a Jupyter Notebook environment on Google Colaboratory

Value-at-Risk Model Finance

SIDE PROJECT

February 2020

· Calculates next-day value-at-risk (worst-case portfolio loss) using Python, tuned at a certain confidence level, using historical data and/or variance-covariance

• Calculates next-day value-at-risk (worst-case portion) toss using rythori, turied at a certain confidence levet, using historical data and/or variance-covaria

• Utilizes Monte-Carlo simulations to project value-at-risk further into the future—next week, month, et cetera

Stock Price Predictor INTERNSHIP PROJECT

Machine Learning

June 2018 - August 2018

- Creates stock price predictions as a proof-of-concept Alexa Skill, written in R, SAP HANA, and NodeJS
- Implements support vector regression to create predictions minimizing the mean-square error, run results in HANA and connect to the skill through AWS Lambda