Summary My skills are in Python Programming, Data Science, Statistics, Algorithm design, Artificial Intelligence and Cybersecurity.

Skill Summary

Cybersecurity:

Sockets, Shellcode, Network Protocols. Metasploit, nmap, ncat, Wireshark. CVE. Patching

Computer Programming:

Python, Python Standard Library. Experience also in C, C++ and x86 assembly language.

Algorithms

Computational Complexity, Graph Theoretic Algorithms, Developed a unique polynomial time algorithm for the permutations / combinations of data. Developed a Rubik’s cube algorithm in exponential time.

Data Science and Statistics

Numerical Python, Pandas and Matplotlib. Seaborn. Visualisation. NetworkX and plotly and bokeh

Artificial Intelligence

Interest in applying artificial intelligence statistical formulas to image, video and text compression. Experience from Harvard study in linear regression, logistic regression, decision tree regression & classification and polynomial interpolation to say the least. Scikit-learn. Generative AI.

Wide understanding of calculus, linear algebra, multivariate calculus, differentiation and integration and matrix computation.

Dynamic programming, divide and conquer, greedy algorithms, optimal algorithms. Decimal, binary and hexadeximal radices. File Formats and Network Protocol Formats. Threading.

Education

Computational Thinking using Python from Massachusetts Institute of Technology

Using Python for Reaearch from Harvard University

References Available upon request