Jacob Lawson

| ——— Contact ——— | 🞓 ED | UCATION | | |
|---|-----------------------|---|--|--|
| jel323@cornell.edu +1 5407697309 603 High Street 24153 Salem VA, USA jacob-lawson-meng Website | 2022- 2023 | Master of Engineering Cornell University Engineering Physics GPA: 3.73Masters of Engineering Project: | ♥ Ithaca, NY leural Networks (CNN) to in- ctudies at Cornell to improve Project sics, and Stochastic | |
| jlawson.xyz | 2018- 2022 | Bachelor of Science ♥ Itha Cornell University Engineering Physics GPA: 3.48 Deans List: Fall 2018, Spring 2019, Fall 2019, Fall 2020, Spring 2021, Fall 2021 Relevant Courses: Mathematical Physics, Honors Analysis, Quantum Mec Quantum Information Science, Quantum Infomation Hardware, Data Structur Functional Programming, Machine Learning. | | |
| El Cont | (Ē) WO | WORK EXPERIENCE | | |
| — Professional Skills — | 2018- 2022 | Research Assistant Cornell University Laboratory for Plasma Studies (LPS) | ♥ Ithaca, NY | |
| Mathematical Modeling | | Operated a laser to conect experimental data of gas definduced fluorescence (PLIF) Developed a more accurate calibration method for thusing Python | e gas density data collected | |
| Monte Carlo Methods | 2022 | TA/Grader - Intermediate Mathematical Physics Cornell University | • Ithaca, NY | |
| Machine Learning CNNs GANs Google Colaboratory | 2022 | C++ Code Developer Civilization 5 LekMod Development Team | Online | |
| MS Powerpoint Laser Safety | D | · Luited and complied C++ Civilization 5 source code to | implement game changes | |
| Coft Chills and Stuan aths | Projec | | | |
| Soft Skins and Strengths | 2022- Current | StockBot Stock Portfolio Management Algorithm | ♥ Online | |
| Creativity Curiosity Explaining Concepts | | • Creating a stock portfolio management algorithm in python, using classical opti- mization and machine learning through PyTorch | | |
| Problem Solving | Leader | rshin Experience | | |
| Time Management Flexibility | | Cornell University Varsity Swim Team | O Ithaca NW | |
| Self ConfidenceLeadershipGood ListenerPatience | 2018- 2022 | Cornell University Awarded Academic All-Ivy for the 2021-2022 season Awarded Men's Swimming Hardest Worker Award for the | e 2018-2019 and 2021-2022 | |
| Other Interests | | Qualifying member of the Ivy League Championships to | eam every year | |
| Swimming Gaming Podcasts Music Gym Movies | PROGRAMMING LANGUAGES | | | |
| | • Pyt • Pvt | hon: Advanced • OCaml: Interm hon - PyTorch: Intermediate • Java: Basic | nediate | |

- Python PyTorch: Intermediate
- Python Qiskit: Basic
- C/C++: Basic
- **PUBLICATIONS**

Research Article 2022

Measurements of the imploding plasma sheath in triple-nozzle gas-puff z pinches, E.S. Lavine, S.V.R. Rocco, W.M. Potter, J. Angel, E. Freeman, J.T. Banasek, J. Lawson, J.B. Greenly, H. Wilhelm, D.A. Hammer, and B.R. Kusse, Physics of Plasmas, 💩 10.1063/5.0084352

• HTML/CSS: Basic

• Matlab: Basic