# Parth Mittal

Pursuing BS in Computer Science — Cornell University

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## Experience

**Founder & CEO** *India, USA*
*PrivatePandaCO | Automated Algorithmic Trading Systems* *Sep 2022 – Present*

- Founded PrivatePandaCo, providing SAAS development & consulting services for algorithmic trading
- Developed a suite of advanced trading bots designed for high-frequency trading and market analysis.
- Utilized in-depth knowledge of the TCP/IP stack and OSI model to implement low-level socket programming.
- Achieved execution speeds averaging 20 ms, with peak performance at 9 ms, surpassing industry standards.
- Created algorithms employing Exponentially Weighted Moving Averages and second derivative analysis.

**Cyber250 Project - National Lead** *New York, U.S.A.*
*U.S. Space Force - i5* *Nov 2024 - Present*

- Led the development of the Cyber250 course, an advanced hands-on cybersecurity training program under i5 Space in conjunction with the U.S. Space Force's Space Training and Readiness Command (STARCOM).
- Managed a team of contributors, coordinating curriculum development while handling Controlled Unclassified Information (CUI) securely to deliver comprehensive cybersecurity education to students nationwide.
- Collaborated with professionals to ensure course content aligns with current defense cybersecurity standards.

**Laboratory Manager** *New York, U.S.A.*
*Cornell Maker Club* *Jan 2025 - Present*

- Assisted members with diverse projects while maintaing rigorous usage and safety standards.
- Developed project proposals to increase operational efficiency and secure additional funding for initiatives.

**Head of Senior Education** *New York, U.S.A.*
*Cornell Cybersecurity Club* *Feb 2025 - Present*

- Founded senior education; organized weekly meetings for top performs for technical discussions on critical cybersecurity topics and tackle advanced cybersecurity challenges, ranging from web to binary exploitation.
- Assembled a team to perform in prestigious cybersecurity competitions like ISTS and other CTFs.

## Projects

**Networks Lead - Wirefree Comms** *New York, U.S.A.*
*MIT Lincoln Lab - Socom Ignite* *Sep 2024 – Present*

- Developed a secure short-range radio transceiver tailored for various military applications.
- Led networks development, innovating communication protocols and spec to enhance security and reliability
- Worked extensively with microcontrollers ranging from RPi4b to Teensy and NRFs.
- Constructed a makeshift Faraday cage utilizing 3D printing techniques and aluminum foil for proof-of-concept demonstrations, effectively isolating signals and preventing external detection

**Sole Developer** *India*
*Public Python Libraries | Pyloggor, KucoinPy, KucoinOBM* *Oct 2022 - Jul 2023*

- Developed several precise applications ranging from pretty printing to high frequency trading.
- Simplified the maintenance of live trading data by developing Python libraries that manages complex exchange communications and provides a Unix domain socket interface for seamless data streaming.
- Rapid adoption post-release with 1k+ downloads within a week of release and 50k downloads lifetime

## Skills

Leadership, Linux Proficiency, Networking, Cryptography, Penetration Testing, MicroPython, Python, Java, Flask, FastAPI, Selenium, Docker, SQLite