# **Coding Projects Portfolio**

### Quantum Key Distribution Software

**Description:** Software developed for academic purposes, focusing on quantum cryptography. (BB84 - Protocol)

**Technologies Used:** Python, Quantum Computing frameworks (QSKIT, IBM Quantum)

**Outcomes:** Preparation for bachelor's thesis in Quantum Cryptography.

**My Role:** Sole developer, responsible for design, coding, and testing.



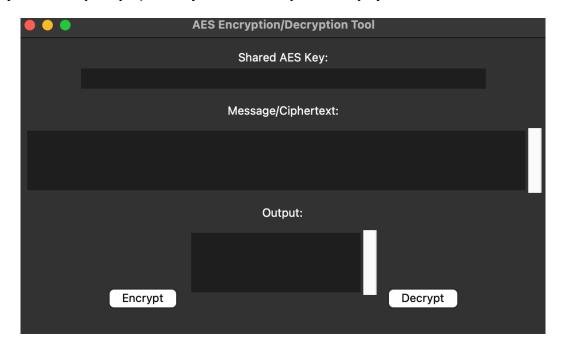
# • Classical Cryptography Messenger

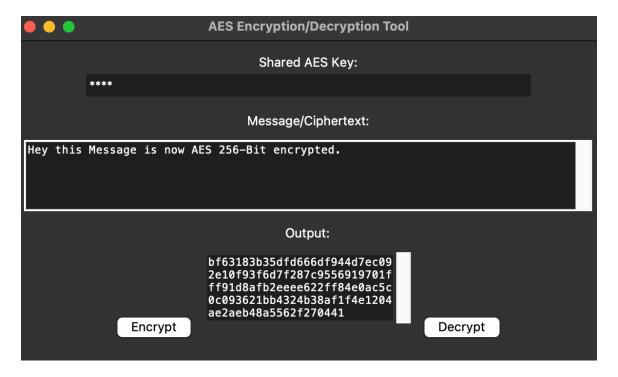
**Description:** A secure communication tool utilizing AES-256 bit encryption.

**Technologies Used:** Python, AES-256 Encryption

**Outcomes:** Enhanced secure messaging capabilities.

**My Role:** Complete project lifecycle from conception to deployment.





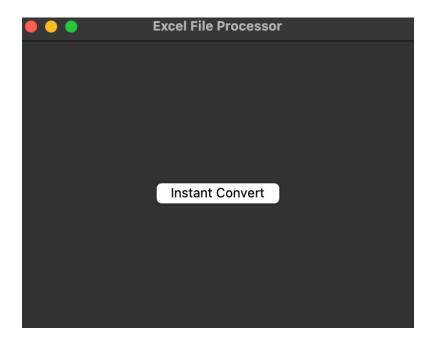
#### Amazon Business Automation Software

**Description:** Automation tool for improving workflow efficiency by extracting buyer information from PDFs and formatting into Excel.

**Technologies Used:** Python

**Outcomes:** Successfully licensed and used in business operations to streamline data handling.

**My Role:** Developer and vendor, including software licensing and testing on various architectures.



# • Telegram Chat Bot

**Description:** Bot designed to automate responses and streamline communication processes.

Technologies Used: Python, Telegram API

**Outcomes:** Improved interaction efficiency and response time.

My Role: Engineered the entire bot functionality and integrated with Telegram.

## Quantum Computing Simulations

**Description:** Simulations conducted to explore quantum computing potentials, focusing on Bell Equations and cryptography.

Technologies Used: IBM Quantum, QSKIT

**Outcomes:** Advanced understanding and practical application of quantum computing in academic research.

My Role: Initiated and executed complex simulations, integrated API for job tracking.

# StreetArt Scanner (Blockchain Conference Project) (<a href="https://devpost.com/software/streetcollect">https://devpost.com/software/streetcollect</a>)

**Description:** Blockchain-based app to reward users for physical activity, integrating technology with interactive art discovery.

**Technologies Used:** Blockchain technology

**Outcomes:** Developed a working prototype that encouraged engagement at the conference.

**My Role:** Collaborative team effort, focused on idea development, design and technical implementation.