

# Robert C. Wong

917-993-4624 | [robwong15@gmail.com](mailto:robwong15@gmail.com) | [linkedin.com/in/robertcwong](https://www.linkedin.com/in/robertcwong) | [github.com/robw0ng](https://github.com/robw0ng)  
[robw0ng.github.io/NameCube/](https://robw0ng.github.io/NameCube/)

## EDUCATION

### **Stony Brook University**

Stony Brook, NY

*Bachelor of Science in Computer Science*

**Relevant Coursework:** *Software Development, Software Security, System Fundamentals 1 & 2, Data Structures & Algorithms, Analysis of Algorithms, Programming Abstractions, Discrete Mathematics, Linear Algebra*

## EXPERIENCE

### **Software Developer - Summer College Intern**

Jul. 2024 - Aug. 2024

*NYPD Compliance Division*

*Manhattan, New York*

- Tackled issues concerning big data processing, user submission forms, and database management bettering the quality of life for staff working on their own tasks.
- Developed user-friendly applications to transform complex and inaccessible systems into easily navigable tools for staff with and without limited computer experience, ensuring accessibility and ease of use for all users.
- Singlehandedly improved departmental efficiency by **86.35%** through the development and deployment of custom software solutions.
- Created and implemented programs that are now in constant use by numerous team members, streamlining their daily responsibilities and significantly enhancing operational effectiveness across the department.

### **AI Trainer**

Jun. 2024 - Present

*Outlier AI*

*Remote*

- Analyzed the output and backend of an AI model according to given prompts, reviewing the steps the model took, which included Python and SQL processes.
- Contributed to the AI model's improvement by providing comprehensive feedback and justifications, enhancing its ability to generate accurate and relevant responses for future prompts.

## PROJECTS

### **RECAP - Data Entry** | *Python, Flask, SQLite, JavaScript, HTML/CSS*

Aug. 2024 – Sept. 2024

- Developed an internal application for the NYPD's Body-Worn Camera unit to streamline the documentation and management of video evidence related to force incidents.
- Reduced form submission time by **58%**, significantly improving efficiency and productivity.
- Designed a user-friendly front-end interface using HTML, CSS, and the Bootstrap framework, enabling seamless form submissions and data retrieval by coworkers.
- Developed a Flask-based backend with Python and SQLite for efficient data management, using JavaScript and AJAX to dynamically display database records on the website for management to view.

### **ComplianceGenie - Data Processing** | *Python, pandas, python-pptx, CustomTkinter*

Jun. 2024 – Aug. 2024

- A Python-based application for the NYPD to automate the generation of reports and presentations, improving efficiency by **98.5%**, replacing manual computations and data entry.
- Utilized pandas for data processing to read, clean, and compile incident, interaction, and arrest data.
- Designed an intuitive front-end using CustomTkinter, prioritizing ease of use and utility for non-technical staff.
- Generated both citywide and borough-specific statistics. Outputting results in comprehensive Excel reports using openpyxl and PowerPoint presentations using python-pptx.

### **Legion - Daemon Manager** | *C, Unix System Calls, Signal Handling, Process Control*

Mar. 2024 – Apr. 2024

- Developed a Unix application for process handling and inter-process communication.
- Created and managed daemons with functions for starting, stopping, and logging activities.
- Employed pipes and signal handlers for secure and effective synchronization and control.
- Ensured system stability with robust error handling and signal safety mechanisms.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL (SQLite & MySQL), C, HTML/CSS, Rust, OCaml

**Frameworks:** Flask, Bootstrap

**Libraries:** pandas, NumPy, python-pptx, jQuery, DataTables

**Developer Tools:** Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse