

Robert C. Wong

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EDUCATION

Stony Brook University

Stony Brook, NY

Bachelor of Science in Computer Science

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

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