Robert C. Wong

917-993-4624 | robwong15@gmail.com | linkedin.com/in/robertcwong | github.com/robw0ng |
robw0ng.github.io/NameCube/

Education

Stony Brook University — Stony Brook, NY
Bachelor of Science in Computer Science — *Aug. 2022 – May 2026*

Division Avenue High School — Levittown, NY
High School Diploma — *Sept. 2018 – June 2022*

Relevant Coursework

- System Fundamentals 1 & 2
- Data Structures & Algorithms
- Analysis of Algorithms
- Programming Abstractions
- Discrete Mathematics
- Linear Algebra
- Finite Mathematical Structures
- Probability & Statistics
- Calculus 1 & 2

Experience

Cybersecurity Virtual Experience Program — May 2024
Mastercard — *Remote*

- Completed a job simulation where I served as an analyst on Mastercard's Security Awareness Team.
- Helped identify and report security threats such as phishing.
- Analyzed and identified which areas of the business needed more robust security training and implemented training courses and procedures for those teams.

Projects

Legion | *C, Unix System Calls, Signal Handling, Process Control* — March 2024 – April 2024

- Developed an application focusing on process handling and inter-process communication in a Unix environment
- Involved creating, and managing daemons, implementing functions such as starting, stopping, and logging daemon activities efficiently.
- Employed inter-process communication techniques such as pipes and signal handlers to synchronize and control daemon processes securely and effectively.
- Implemented error handling and signal safety mechanisms to ensure system stability and reliability during daemon runtime operations.

Charla | *C, POSIX Threads, Sockets, CSAPP Library* — April 2024 – May 2024

- Developed a multi-threaded chat server in C that handles multiple client connections simultaneously, demonstrating proficiency in network programming and concurrent computing.
- Utilized POSIX sockets to manage client connections, enabling real-time messaging between users.
- Implemented thread-safe operations using mutexes and semaphores to manage access to shared resources among multiple threads, ensuring data integrity and preventing race conditions.
- Designed and implemented user and client registries with functionalities to register, unregister, and query clients and users, supporting dynamic user sessions.

NEO-Viewer | *Java, GUI, Big Data Handling* — May 2023 – June 2023

- Developed a comprehensive Java program to manage and visualize data on Near-Earth Objects (NEOs), showcasing expertise in object-oriented programming and data management.
- Designed and implemented a streamlined database using custom classes to store and sort information about NEOs, such as reference IDs, diameters, dates, and miss distances.
- Built a graphical user interface (GUI) using Swing to interact with and visualize NEO data, including functionalities for sorting and filtering.
- Integrated with external libraries (e.g., bigdata.jar) to handle large datasets, ensuring efficient data processing and management.

Technical Skills

Languages: Java, Python, C, JavaScript, HTML/CSS, OCaml, PostegreSQL
Operating Systems: Windows, Linux, MacOS
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse