Sharon Guan

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EDUCATION

Stony Brook University, Stony Brook NY — Expected: December 2024
Bachelor of Science in Computer Science — GPA: 3.4

Relevant Coursework: System Fundamentals | Data Structures | Analysis of Algorithms | Programming Abstractions | Theory of Computation | Software Development | Compiler Design | Finite Mathematical Structures | Statistics

HONORS/AWARDS

- WISE Honors Program (Fall 2021 - Current) | Dean's List (Fall 2021 - Current)
- Rocky Mountain Biological Laboratory Grant Recipient

SKILLS

- Computer Skills: Java, Python, C/C++, Machine Learning, R, HTML, CSS, JavaScript, Linux, Virtual Machine, MongoDB, Express, React, Node
- Language Skills: English (Fluent), Cantonese (Proficient)

EXPERIENCE

Institute of Electrical and Electronics Engineers (IEEE) Student Branch — Stony Brook. NY
Professional Development Chair — February 2023 - Present

- Led the orchestration and oversight of the IEEE Research Conference Panel, a vital platform for showcasing cutting-edge research and promoting academic excellence within the IEEE community.
- Communicate with company employers for professional development opportunities.
- Responsible for professional, academic, social, and technical outreach/collaboration.

U.S Government Accountability Office — Washington, D.C
Information Technology & Cybersecurity Analyst — May 2023 - August 2023

- Completed analysis and research on federal agency programs in the IT and Cybersecurity aspect.
- Planned and designed engagements to initiate the auditing process.
- Prepared written reports for various audiences, including team members, stakeholders, and congressional staff.

New York Institute of Technology — Manhattan, NY
National Science Foundation Undergraduate Researcher — May 2022 - August 2022

- Conducted research on the security of mobile devices and wireless networks.
- Applied machine learning techniques to analyze real-time data.
- Co-wrote "EnsembleDroid: A Malware Detection Approach for Android System based on Ensemble Learning" for accepted publication in the 2022 MIT IEEE URTC Conference.

PROJECTS

EnsembleDroid: Classifier that determines whether an Android application is malicious or benign by detecting patterns in the application permissions. Involves the process of decompilation, feature extraction, and hyperparameter tuning.

SBUMaps: Mobile app that helps Stony Brook University students navigate to their designated classes within a specific building by implementing Dijkstra's algorithm. Currently planning the graph structure of the tiles on the map.

CLUBS, ACTIVITIES & ORGANIZATIONS

Stony Brook Computing Society, *Community Chair* — October 2022 - August 2023

- Lead workshop events on building technical skills and career preparation.
- Managed collaboration events with other clubs and organizations.

VIP "Secure Distributed Computation and Learning Networks" Team, *Member* — January 2023 - May 2023

- Developed a framework to reliably exploit information from potentially unfriendly environments.
- Made various large-scale decision-making, computation, optimization and machine learning algorithms 'secure' against network/component failures and adversary attacks.