# Seoyeon Choi

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## EXPERIENCE

**COMPUTER SCIENCE RESEARCH**                                                            **Albany, US**

SUNY at Albany                                                                            *May 2023 - December 2023*

Engaged in extensive research, utilizing computer technology to explore novel avenues for antimalarial drug discovery. Contributed significantly to groundbreaking research in the field of antimalarial drug development, showcasing a steadfast commitment to advancing scientific knowledge and fostering innovative solutions within the healthcare sector.

**TEACHING ASSISTANCE**                                                                  **Albany, US**

SUNY at Albany                                                                           *August 2023 - December 2023*

Demonstrated proficiency in organizing and supervising academic activities by managing laboratory sessions for large groups of over 400 students. They demonstrated their commitment by actively participating in biweekly computer science conferences. Responsibilities included detailed grading of student work and providing constructive feedback. Notable results were achieved, with students' commendable overall grades, expressed satisfaction and positive feedback highlighting the effectiveness of their educational plans.

**VP AT SWE (UALBANY)**                                                                  **Albany, US**

Society of Women Engineers - SWE                                                         *January 2023 - August 2023*

Organized impactful events to empower women in STEM majors, fostering connections among engineers and streamlining meeting schedules. Spearheaded the onboarding process as Vice President of the Society of Women Engineers, showcasing effective leadership and organizational prowess within the women's society community at Ualbany.

## EDUCATION

**BACHELOR OF SCIENCE (B.S.) IN COMPUTER SCIENCE CANDIDATE**                             **GPA 3.75**

State University of New York at Albany, **Albany**                                        *Expected graduation May 2024*

*Awards & Honors*

- Dr. Seth Spellman. Academic Achievement Award (2023)
- Global excellent scholarship from SUNY at Albany (2021-2023)
- Dean's List of Distinguished Students at SUNY at Albany (2021-2023)

*Extracurricular Activities*

- Member of Tau Sigma Honor Society.
- Vice President of Society of Women Engineering
- Members of the National Honor Society.

## PROJECTS

- Operating System:
  Proficient in multi-threaded scheduling, CPU scheduling, memory APIs, swapping, network file systems, virtual machines, free space management, paging, concurrency, and threads.

- Computer Communications Networks:
  Applied principles and protocols for reliable data transmission, routing, forwarding, and shared media access. Extensive knowledge of internet application architecture.

- Artificial Intelligence using Python:
  Demonstrated expertise in both classical and modern artificial intelligence. Contributed to a group project recognizing handwritten mathematical equations and generating Latex format using encoder/decoder/CNN.

- Software Engineering:
  Led the creation of a rental car company website, showcasing strong software engineering skills.

- Computer Security:
  Applied techniques in privilege escalation, buffer overflows, race conditions, SQL injection, cross-site scripting, packet spoofing, TCP attacks, and firewall.

- Laxer/Parser/Interpreter Programs in Java:
  Developed effective laxer, parser, and interpreter programs in Java.

- Numerical Analysis Method/MATLAB Coding:
  Applied numerical analysis methods, including polynomial interpolation, numerical differentiation, numerical integration, Gaussian quadrature, etc., using MATLAB.

## REFERENCES

**Phipps Michael**
**Professor of Practice Computer Science**
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**Masoumzadeh Amir**
**Associate Professor Computer Science**
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## SKILLS

Python, Java, CSS, HTML, JavaScript, MATLAB, MIPS, Operating System, Computer Security, Computer Networking, Software Engineering, Data Structure, Compiler design, Web development, Neural Networks, Automata Theory, Artificial Intelligence