Ryn Slack

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EDUCATION

Georgetown University, Georgetown College of Arts and Sciences **Washington, D.C.**
Bachelor of Arts in Computer Science and Classics *Expected Graduation: May 2024*

- Majors: Computer Science and Classics with a concentration in Ancient Greek
- Cumulative GPA 3.7 / 4.0
- Dean's List every semester; Second Honors Spring 2022, Spring 2023

WORK EXPERIENCE

Intelsat, Satellite Control Systems, 40 hours/week **May 2023-August 2023**
Intern, Satellite Control Systems

- Wrote code for the Software Defined Satellite project with expected deployment in 2027
- Developed and implemented testing tools and frameworks, enhancing the efficiency and reliability of the Intelsat Ground Network System Infrastructure
- Participated in code reviews and issue resolution, actively contributing to the iterative software development lifecycle
- Demonstrated proficiency in programming languages such as Python and SQL to write clean, efficient and robust code
- Cultivated excellent communication skills through interactions with team members, and by presenting progress at daily standup meeting
- Gained hands-on experience with software testing concepts, methodologies, and tools to identify and rectify software defects
- Embraced emerging technologies, particularly in the field of satellite communication and software-defined systems

Georgetown University, Computer Science Department, 10-20 hours/week **August 2022-current**
Teaching Assistant, Computer Science II (Fall 2022, Summer 2023, Fall 2023), Computer Science I (Summer 2023), Computational Structures (Fall 2023), and Python (Spring 2023)
Head Teaching Assistant (Fall 2023)

- Deliver engaging and informative lectures to supplement course content, clarifying complex concepts and promoting active student participation
- Lead a team of teaching assistants to support the Computer Science II course, overseeing the coordination of instructional activities and ensuring a high-quality learning experience for students
- Mentor teaching assistants, fostering their professional development and enhancing their effectiveness in supporting students' academic progress
- Grade assignments and projects using C++, Python, Google Cloud Compute Engine and Linux
- Hold office hours to answer questions and help students understand concepts
- Demonstrate strong leadership skills by coordinating grading efforts, maintaining consistent evaluation standards, and ensuring timely feedback to students
- Support Computer Science II design challenge

Strategic Analysis Enterprises, Inc., ~6 hours/week **January-July 2022**
Research Assistant for Natural Language Processing (NLP) project

- Reviewed and analyzed the output of Natural Language Processing (NLP) computer programs, contributing to the evaluation and refinement of cutting-edge language models
- Conducted in-depth examinations of program-generated text to identify patterns, errors, and areas for improvement, enhancing the overall quality of the NLP algorithms
- Demonstrated meticulous attention to detail, critical thinking, and the ability to recognize subtle nuances in language model outputs
- Contributed to advancing the field's understanding of program-generated text

Georgetown University, Maker Hub, 2 hours/week **Fall 2021-current**
Maker Hub staff (volunteer), Maker Volunteer Parent (Mentor)

- Support students using equipment such as 3D printer, electronics, laser cutter and sewing machines
- Manage Maker Hub social media account
- Mentor incoming volunteers and develop their hands-on and interpersonal skills
- Volunteer of the Month, October 2022

Independent Tutor, 3 hours/week **February -May 2023**
Tutor for Math Methods for Computer Science Course (Discrete Math)

- Provided tutoring and academic support, assisting a student in mastering complex mathematical concepts relevant to computer science applications
- Conducted one-on-one tutoring sessions, addressing the student's questions and concerns, and offering explanations in a clear and understandable manner
- Created supplementary learning materials, including study guides and practice problems, to aid the student in their understanding of challenging topics
- Demonstrated strong communication skills and the ability to convey abstract mathematical concepts
- Received positive feedback from the student for fostering an engaging and supportive learning environment that contributed to their academic success

ADDITIONAL SKILLS AND INTERESTS

- Computer Languages: C++, Java, Python, Assembly, SQL, JSON, Arduino
- Software and Technology: VMWare, Linux, Visual Studio Code, Google Cloud Compute Engine, Microsoft Office (Excel, PowerPoint, Word), Google Workspace (Drive, Docs, Sheets, Slides), Prezi, GitHub
- Interests: Self-study of languages - Japanese, Mandarin Chinese, German, Welsh
- Extracurriculars – Flautist in Georgetown Jazz Ensemble
- Notable Projects – LISP interpreter, Chat server, Block breaker video game