

Sarah Morin

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SKILLS

PROGRAMMING

Java • Python • C
SQL • Assembly • \LaTeX
HTML • PHP • MATLAB

OPERATING SYSTEMS

Linux • Windows

LANGUAGES

English (Native)
Spanish (Advanced)

COURSEWORK

Operating Systems
Foundations of Computing
Algorithms
Continuous Algorithms
Number Theory
Systems Programming
Database Systems
Software Engineering
Computer Architecture
Discrete Structures I & II

AWARDS

2019

Steve and Shelly Heller Prize
Clare Booth Luce Scholar

LINKS

Github:// [smorin8674](#)
LinkedIn:// [Sarah Morin](#)

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY

BS IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

School of Engineering and Applied Science

Expected May 2021 | Washington, DC

GPA: 3.85 / 4.0

- Concentration: Cybersecurity, Cryptography

DIGITAL FORENSICS AND CYBER SECURITY PROGRAM

PRE-COLLEGE PROGRAM | CHAMPLAIN COLLEGE

July 2016 | Leahy center for Digital Investigation

- Learned basic cyber security and digital forensics skills such as computer and network security and vulnerability exploitation.
- Used state of the art technologies including TCPDump, Wireshark, and NMAP.

RESEARCH

R2B2 | UNDERGRADUATE RESEARCHER

PROFESSOR POORVI VORA | DEPT. OF COMPUTER SCIENCE

September 2021 - Present | The George Washington University

Developed open source library to execute risk-limiting ballot polling audits including a Bayesian approach and a convolution approach.

BAYESIAN RISK LIMITING AUDITS | UNDERGRADUATE RESEARCHER

PROFESSOR POORVI VORA | DEPT. OF COMPUTER SCIENCE

March 2019 - September 2019 | The George Washington University

Simulated Bayesian risk-limiting ballot polling audits on elections with invalid votes and multiple candidate elections.

EXPERIENCE

THE GEORGE WASHINGTON UNIVERSITY | TEACHING ASSISTANT

Jan. 2019 - Present | Washington, DC

CSCI 3410	Systems Programming	Spring 2020
CSCI 2461	Computer Architecture	Fall 2019
CSCI 1311	Discrete Structures I	Spring 2019

GC ENGINEERING | RECEPTIONIST

June 2017 - Present | Laconia, NH

PROJECTS

MULTIVARIATE HYPERGEOMETRIC DISTRIBUTION SAMPLING TOOL

Python

MUTEXES AND FUTEXES (xv6 OS)

C

COURSE REGISTRATION SYSTEM

MySQL, HTML, PHP, CSS

ENCRYPTION/DECRYPTION WITH CAESAR CIPHER/OTP

LC3 Assembly

SEARCH ENGINE | TEXT FILES

C

CHAT ROOM

Java