

# Noelle Crawford

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## PROFESSIONAL EXPERIENCE

### (ECE 391) Computer Systems Programming Course Assistant

University of Illinois, ECE Department

**Urbana, IL**

January 2022-present

Currently leading weekly office hours to aid students in projects including the development of a device driver kernel module and a 32-bit kernel. Also responsible for aiding in the grading of said projects.

### Computer Science and Mathematics Tutor

Self Employed

**Virtual**

August 2019-present

Worked with high school students in up to AP calculus and AP computer science to increase understanding of in class material and prepare for AP exams. Created my own lesson plans from which to teach based around each student's individual needs.

### Introduction to Electronics Course Assistant

University of Illinois, ECE 110 Lab

**Urbana, IL**

January 2021-May 2021

Ran an online section of the introduction to electronics lab, in which students were introduced to basic circuit prototyping. As a course assistant I was tasked with clarifying any points of confusion held by students and aiding in the debugging of circuits during the lab section.

### Introduction to Computer Science T.A.

Mountain View High School

**Mountain View, CA**

August 2019-June 2020

Worked with students new to computer science to build strong foundations in Snap, Python, RobotC, and Java. As a T.A, my duties included preparing lesson plans, grading assignments, and answering student questions.

## Involvement

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### SigPwny Computer Security Club

Active Member

**University of Illinois**

August 2020-present

Designed and presented slides for Spring 2021 SQL injection and XSS meeting. Participated as a team member in multiple CTFs, including CSAW Quals 2021 where we placed 2nd overall, Buckeye CTF where we placed 1st overall, and the SigPwny 2020 recruitment CTF where my partner and I placed 1st.

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## EDUCATION

### University of Illinois at Urbana Champaign

Bachelor of Science in Electrical Engineering, Mathematics  
James Scholar

**Urbana-Champaign, IL**

August 2020-present

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## ADDITIONAL INFORMATION

**Relevant Coursework:** Analog Signal Processing, Computer Systems Programming, Digital Systems, Number Theory, Differential Equations, Abstract Algebra I/II, Fields and Waves I/II, Computer Security I, Communications Networks, Computer Systems Organization

**Programming Languages:** Java, C/C++, HTML/CSS, Python, JS (React), x86 Assembly

**Other:** Linux, FPGA design (SystemVerilog), Mathematica