Noelle Crawford

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PROFESSIONAL EXPERIENCE

Computer Science and Mathematics Tutor   **Virtual**
Self Employed   *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   **Urbana, IL**
University of Illinois, ECE 110 Lab   *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, CA**
Mountain View High School   *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

SigPwny Computer Security Club   **University of Illinois**
Active Member   *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. Helped organize the 2021 recruitment CTF.

Science Olympiad   **Mountain View H.S.**
Mentor (2020), VP (2019-2020), Marketing (2018-2019)   *August 2014-December 2020*

Mentored students in the 'Sounds of Music' and 'Machines' events on topics in physics, specifically mechanics and basic fluid dynamics. As a team member, competed at a national and state level, placing 1st at tournaments such as the Golden Gate and Mira Loma Invitationals.

EDUCATION

University of Illinois at Urbana Champaign   **Urbana-Champaign, IL**
Bachelor of Science in Electrical Engineering, Mathematics   *August 2020-present*
James Scholar

ADDITIONAL INFORMATION

Relevant Coursework: Analog Signal Processing, Computer Systems Programming, Digital Systems Laboratory, Fields and Waves, Intro to Number Theory, Intro to Differential Equations Plus, Abstract Linear Algebra, Intro to Abstract Algebra

Programming Languages: C/C++, Python, Java, HTML/CSS, x86 Assembly, Javascript

Other: Linux, FPGA design (SystemVerilog), Mathematica