LAUREN MANGIBIN

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EDUCATION

- **The University of Texas at Austin** May 2022
  BS Computer Science
  Relevant Coursework: Data Structures, Discrete Math
- **The Liberal Arts and Science Academy (LASA)** 2014 – 2018
  High School, Austin, TX
  Relevant Coursework: AP Computer Science/ Intro to Computer Science, Computational Problem Solving

PERSONAL & ACADEMIC PROJECTS

- **UT Laundry App (Java)** Oct 2018
  Developed an app in Android studio that records the available laundromats in Jester West dormitory along with a website detailing the availability. Made during HackTX hackathon.
  Coded the launcher for a QR code scanner to record the unique ID for the laundromat
- **Evil Hangman (Java)** Oct 2018
  Used Maps to develop a Hangman game that takes in a list of words and, as the user guesses a character, shifts its decision until there are no more options and has to choose a word
- **Alarm System (C++, Arduino Microcontrollers)** 2016 – 2017
  Built an alarm system that would light up and sound if someone came within 15 feet of the protected object; school project coded in C++ using Arduino controllers and laser detectors
- **LED Billboard (C++, Arduino Microcontrollers)** June 2016
  Programmed in C++ and used Arduino Microcontrollers to form letters on an array of lights during First Bytes computer science camp

EXPERIENCE

- **Research Intern at the University of Texas at Austin** July 2016 / July 2017
  Increased the shelf-life of silver nanoparticles by 4 days through experiments with ethanol, improving the efficiency of testing under the supervision of Dr. A. Dylla
  Assisted researchers in testing the amount of H2 gas produced by various nanoparticles to create greener gas emission for cars in the future
- **Intro to Computer Science Tutor (Python, Scratch)** 2016 – 2018
  Mentored students in Python and Scratch covering concepts such as binary conversion, boolean logic, and basic programming

TECHNICAL SKILLS

- **Proficient**: Java, Python, LaTeX | **Familiar**: C++, Arduino Microcontrollers | **Learning**: CSS, HTML

EXTRACURRICULAR ACTIVITIES

- **Women in Computer Science (WiCS)** 2018 – 2019
  Focused on the advancement of women in computer science through events that serve its members and the community
- **Information Systems and Security Society (ISSS)** 2018 – 2019
  Gained cyber security experience by competing in CTF competitions every other Friday in addition to lectures and workshops
- **Freshman Research Initiative** 2018 – 2019
  Understanding modern research in the areas of robotics, artificial intelligence, and human-robot interaction

LEADERSHIP & INVOLVEMENT

- **SEMI High-Tech U Ambassador** 2016 – 2018
  Assisted the Executive Program Director with the activities of 35 high school students during SEMI Foundation's STEM program, SEMI High-Tech U
  Voted to receive the SEMI Foundation Scholarship Award
- **Intro to Computer Science Tutor (Python, Scratch, Java)** 2016 – 2018
  Mentored students in Python and Scratch covering concepts such as binary conversion, boolean logic, and basic programming

HONORS AND AWARDS

- National Merit Commended Scholar, National AP Scholar, NCWIT Honorable Mention