LAUREN MANGIBIN

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EDUCATION

- **The University of Texas at Austin** December 2021
  BS Computer Science
- **The Liberal Arts and Science Academy High School (LASA)** 2014 – 2018

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
- **Project Euler (Java, Python, LaTeX)** 2017 – 2018
  - Programmed solutions to various Project Euler problems in Java and Python and wrote explications of problems in LaTeX
- **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

RELEVANT ORGANIZATIONS

- **Women in Computer Science (WiCS) 2018 – 2019**
  - Works closely with WiCS mentor on projects
- **Information Systems and Security Society (ISSS) 2018 – 2019**
  - Competes in capture the flag (CTF) competitions
- **Freshman Research Initiative 2018 – 2019**
  - Autonomous Robots stream

TECHNICAL SKILLS

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

RELEVANT COURSEWORK

- AP Computer Science/ **Intro to Computer Science**
- Computational Problem Solving
- **Data Structures**
- **Discrete Math**

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
- National Center for Women in Technology (NCWIT) Texas Honorable Mention