

# SAHIL SHAH

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## Summary

- Experience with technologies such as the C, C++, Java, and Android languages
- Relevant projects using these specified technologies
- Unrelated work experience that developed relevant skills that complement any workplace

## Education

Bachelor's in science | May 2020 | University of Illinois at Urbana-Champaign

- Computer Engineering
- Related coursework: Computer Systems and Programming, Analog Signal Processing
- Currently enrolled: Data Structures, Discrete Structures, Digital Systems Laboratory

## Skills & Abilities

### Technical Skills

- Experience with Java, C, C++
- Limited experience with android development
- Limited experience with System Verilog HDL and the Quartus II design software

### Language – Spanish

- Ability to communicate in both English and Spanish including speaking, writing, listening, and reading at an intermediate level in both languages

## Experience/Projects

### Self-Driving Robot

- Projects required the incorporation of at least one sensor not previously used in the class to build something
- Used ultrasonic sensors and an Arduino microcontroller to build a robot that had the ability to drive and avoid obstacles in its path.
- The use of unfamiliar sensors (ultrasonic sensors) required the testing of and familiarization of said sensors through constructing simple circuits and analyzing sensor reaction to stimuli such as objects close and far away

### Sudoku Solver

- Implemented a program that recursively determined the correct solution to a sudoku puzzle
- Implemented a backtracking algorithm to determine the correct permutation of numbers in each row, column and 3x3 zone

### Undergraduate Course Assistant – Computer Systems and Programming

- Assisted in the daily operation of the class including assisting graduate teaching assistants and professors
- Responsibilities include proctoring and grading exams taken by the students
- Responsible for the grading of the weekly machine problems of a lab section

## Associations

### Association for Computer Machinery (ACM)

- Focused on enhancing technical ability
- Collaborated in relevant projects in a variety of topics in Computer Science and Software Engineering
- Special Interest Group: Mobile (SigMobile)
  - Developed skills in Android App Development
  - Learn about the variety of ways to design a mobile app and implement them to create meaningful and useful application