

SHIVANI GHANTA

sghanta2@illinois.edu | (408) 508 - 9269

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN | **BS Computer Science** 2018 – 2022
GPA: 3.76/4.0 | Coursework: Software Programming Studio, Data Structures & Algorithms, Discrete Structures, Computer Architecture, Statistics and Probability for Computer Science

EXPERIENCE

Cisco Systems | *Software Engineering Intern* San Jose, CA

- Worked with core software and hardware teams to program FPGA (microchip) using **Verilog**

Fremont Robotics | *Strategy Director & Software Specialist* Sunnyvale, CA

- Led team to qualify for the 2018 **world championships** by creating winning strategies with leaders of teams under extreme time pressure
- Designed robot control systems in **Java** including autonomous navigation with **PIDs**, encoders and vision processing (**OpenCV**)

Cupertino Robotics | *Mentor* Sunnyvale, CA

- Mentored 20 member **VEX robotics** team to win **Team of the Year** award by teaching them how to build and program their robot in order to participate in competitions

PROJECTS

AI PLAYER STRATEGY ALGORITHM (C++)

- Created intelligent player interface with ability to compete against other interfaces within a high-scoring game
- Won **first place** in internal competition with over 200 students

NAIVE BAYES ALGORITHM (C++)

- Designed a handwriting recognition algorithm by using a Naive Bayes classifier to interpret handwritten text as recognizable characters

CELEBRITY RECOGNITION ANDROID APP (JAVA)

- Implemented Google APIs to design app to recognize celebrity faces based on user input

ROBOTICS SCOUTING ANDROID APP (JAVA)

- Led a team of software developers in programming an Android application that recorded and analyzed robotics match statistics
- Currently used by **> 10** robotics teams in the Bay Area

PEDOMETER PROGRAM (JAVA)

- Designed and implemented a step counting algorithm that analyzed different walking speeds and gaits to ensure accuracy

PLANTS VS. ZOMBIES (C++)

- Utilized inheritance and recursion to create a multiplayer video game similar to the original Plants vs. Zombies

ACTIVITIES

SPECIAL INTEREST GROUP FOR ARTIFICIAL INTELLIGENCE | UIUC
ASSOCIATION OF DATA SCIENCE AND ANALYTICS | UIUC
SOCIETY OF WOMEN ENGINEERS | UIUC
WOMEN IN COMPUTER SCIENCE | UIUC