

Sahit Kavukuntla

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Computer Science student well versed in Java and Python seeking summer internship in software engineering or computer hardware to strengthen technical skills and learn to work in a team in a professional context.

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Aug 2020-Expected May 2023

Dean's List Recipient; Honors Program

GPA: 3.8/4.0

B.S. in Computer Science; Concentrations: Intelligence, Theory, Systems and Architecture

Relevant Coursework: Computer Organization and Programming, Data Structures and Algorithms, Discrete Mathematics, Object Oriented Programming, Statistics and Applications, Linear Algebra, Multivariable Calculus

Archbishop Mitty High School, San Jose, CA

Aug 2016-May 2020

GPA: 3.9/4.0; ACT: 35

Relevant Coursework: AP Calculus AB, AP Calculus BC, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism, AP Computer Science A, Differential Equations

Carnegie Mellon University, Pittsburgh, PA

Jul 2019-Aug 2019

AP/EA Program

Relevant Coursework: Principles of Computing, Introduction to Electrical and Computer Engineering

PROJECTS

Variable Factors and the Epidemiology of COVID-19

Feb-May 2020

Differential SIR Model

- Modeled spread of COVID-19 using sustainable-infected-recovered population differential equations in MATLAB based on spread data from South Korea
- Studied effects of seasonal transmissions, vaccines, social distancing, and mask usage

Predicting the Result of the Last Game of the NBA Finals

Oct-Dec 2019

Markov Stochastic Chain Analysis

- Used results of 30 years of NBA finals to theorize which team would win the next year's championship; accurately benchmarked and predicted 2019 NBA Championship winner
- Adapted to fit most sports based on previous data, adjusted for limited sample sizes when necessary

ACTIVITIES

FRC Robotics, Archbishop Mitty High School

Sep 2016-May 2020

Subsystems Lead, Strategy Lead

- Wrote vision tracking software to automate positioning and shooting mechanisms on 2019 robot
- Subsystems Lead: taught 14 new members the basics of mechanical systems; led 9 members in design, fabrication, and testing of cargo manipulation subsystem in 2019 robot
- Strategy Lead: analyzed and documented game strategy for 2018 season, communicated with 60 other teams at competition, and managed data on all teams at competition to create in-match strategy

Tech Team, Archbishop Mitty High School

Jan 2017-May 2020

Lead Tech

- Managed support requests and maintenance for students and faculty/staff for 1900 iPads, 250 MacBooks, and 80 classroom Apple TVs
- Trained team of 25 students in device care, diagnosis and resolution procedures, and user interaction
- Supervised audio and video interfaces for 12 school events per year, each with 50-500 attendees
- Apple Certified iOS Technician (2019) and Apple Certified Macintosh Technician (2019)

SKILLS

- Programming Languages: Java, C, Assembly, Python, Swift, MATLAB, Git, SQL
- Web/Design: UI Design (JavaFX, Tkinter), Microsoft Office Suite, Adobe Suite
- Operating Systems: OSX, iOS, Windows, Linux (Ubuntu, RedHat), Docker Container
- Fluent in English, Telugu, Spanish