

# Amandeep Heyer

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## EDUCATION

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### **Yale University**, New Haven, CT

- Bachelor of Science, Computer Science, Expected Graduation May 2022
- GPA: 3.91/4.0; Gates Scholarship Recipient
- Activities: Yale Anti-Gravity Society (Juggling) President, Planetarium Show Presenter, Club Squash Player
- Relevant Coursework: Data Structures and Programming Techniques, Algorithms, Digital Systems, Intro Machine Learning, Data Visualization and Analysis

### **Henry J. Kaiser High School**, Fontana, CA

- Graduated as Valedictorian, May 2018
- Weighted GPA: 4.64/4.0; National Merit Scholar; National AP Scholar
- Activities: National Honor Society President, Pi Mathematics Club Vice President, Varsity Tennis Captain

## WORK EXPERIENCE

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### **ReVert Technologies, Inc.**, Fontana, CA, June 2020—Present

#### *Lead Software Developer*

- Led development of a cross-platform React Native application designed to allow customers to control a smart power plug through various rules and to present data on device energy consumption and carbon footprint
- Developed a system to combine scraped grid energy composition data with customer energy consumption data to estimate the specific carbon footprint of customer devices
- Helped run two beta tests with a total of 75 people to assess the value of current and potential features

### **YIEEE LED Team**, New Haven, CT, August 2019—December 2019

#### *Arduino Developer*

- Helped to engineer and program an artistic EKG display for a dancer to wear during a showcase
- Controlled an LED display with an Arduino microcontroller combined with a small heart-rate monitor

### **YaleForum**, New Haven, CT, October 2018—October 2019

#### *Software Developer*

- Co-developed a website for Yale students to ask questions that they cannot get answered elsewhere quickly, potentially easing the transition into Yale for first-year students and helping upperclassmen as well
- Independently expanded on code written as a class project and deployed the website to a publicly accessible domain
- Combined HTML, CSS, an SQL database, and Python code in a Flask app on the Heroku platform

### **Rover Swarm**, New Haven, CT, August 2018—April 2019

#### *Software Team Member*

- Helped design code to control multiple robots working together to map out the colors of a certain area
- Wrote code to help simulate cooperative behavior among the robots in order to make implementing the algorithm on actual hardware easier
- Utilized the Robot Operating System in conjunction with Python

## SKILLS

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**Fluent:** Python, C, JavaScript, React Native, Arduino, Google Firebase, HTML, CSS

**Comfortable:** R, D3