

# SIDHANT PUNTAMBEKAR

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## Education

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### Bachelor of Arts, Computer Science

*University of Colorado Boulder, August 2019 - present*

- President Horace M. Hale Esteemed Scholar Award
- GPA: 3.916, Dean's List: Fall 2019, Spring 2020

### International Baccalaureate Diploma, High School Diploma

*Fairview High School, Boulder, CO, August 2015 - May 2019*

- Advanced Placement Honors with Distinction
- Unweighted GPA: 3.78 Weighted GPA: 4.60

## Work Experience

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### Research Intern (RNA Bioscience Initiative)

*University of Colorado, Anschutz Medical School, Denver, CO, June 2020 - present*

- Incoming RNA Bioscience Initiative Summer Intern at University of Colorado, Anschutz Medical Campus working with RNA Informatics Fellow group under mentorship of Dr. Jay Hesselberth

### Learning Assistant, CSCI 1300

*University of Colorado Boulder, January 2020 - May 2020*

- Assisting students in learning material for CSCI 1300 - Starting Computing course by holding weekly office hours.
- Answered student programming questions in recitation period as well as on Piazza online forum.
- Meeting with CSCI 1300 instructional faculty to design course assignments and anticipate student difficulties.

### Research Intern (PRECIP)

*The National Center for Atmospheric Research (NCAR), Boulder, CO, June 2018 - January 2019*

- Researched landfalling tropical cyclones along the US eastern coastline to improve computational forecasting models using statistical analysis and data visualization from Extended Best Track Hurricane data set.
- Presented at 99th American Meteorological Society conference in Phoenix, Arizona, January 2019.

## Selected Independent Projects & Experiences

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### Software Programmer

*Robotic Mining Competition, Robotic Boat Team, University of Colorado Boulder, September 2019 - present*

- Programming a robotic boat to make navigational decisions considering obstacles utilizing Robotic Operating System (ROS) on a Jetson TX2 platform as well as RPLIDAR and Intel RealSense camera.
- Programming a high level state machine to allow a mining robot to make run-time decisions autonomously given its current state.

### HackCU VI 2020

*University of Colorado Boulder, February 2020*

- Created a wifi sniffer program called Cyberhood which aggregates data from users joining a network and displays it on a web server leveraging database services and cloud computing.
- Designed with Kismet wifi sniffer, Google Cloud Platform as well as full stack tools such as MongoDB, JavaScript, and HTML

## **Major League Hacking Local Hack Day Hackathon 2019**

***University of Colorado Boulder, December 2019***

- Created a new scheduler for the CU BOLD Center to facilitate scheduling of mock technical interviews and academic advising appointments.
- Designed scheduler using full stack development tools such as MongoDB, React, and Node.js as well as user authentication features such as JSON web tokens.

## **Rocky Mountain Genomics HackCon**

***University of Colorado Boulder, June 2019***

- Explored various genomic analysis tools such as Nextflow and Galaxy for computerized RNA-sequencing analysis of cancer genes.

## **Honors & Awards**

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- American Meteorological Society Freshman Undergraduate Scholar, 2019
- President Horace M. Hale Esteemed Scholar Award, 2019
- Colorado State Seal of Biliteracy (Spanish and English), 2019

## **Skills & Interests**

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**Certifications:** Introduction to Genomic Technologies, Python for Genomic Data Science, Genomic Data Science with Galaxy, Coursera/Johns Hopkins University, 2019

**Programming Languages:** C++, Python, Java, Bash (Unix Shell), Javascript, MATLAB, Swift, Perl, Nextflow, HTML

**Computer Skills:** Microsoft Word, Excel, Powerpoint, Prezi, Google Docs, Data Entry, Docker, Singularity, Git

**Languages:** English, Spanish, Hindi, Marathi