

SIDHANT PUNTAMBEKAR

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Education

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

Work Experience

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

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

- 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

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