

## Education

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### University of Colorado Boulder

B.S. (Hons) Computer Science  
B.S. (Hons) Applied Mathematics

May 2020

GPA: 4.000 (after Fall 2017)

### Arsha Vidya Mandir, India

Central Board of Secondary Education  
Senior School Certificate Examination (Nationwide High School Graduation Examination)

May 2015

96.20 %

## Experience

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### Research Assistant, University of Colorado Boulder

Sep 2017 - Present

- Working in the AVS Lab on optical navigation, and feature tracking in astronomical objects
- Developing computer vision and machine learning algorithms to identify potential features on astronomical objects in deep space and use them as beacons for navigation

### Director of Technology, HackCU

Sep 2016 - Present

- Leading a small tech team at HackCU, a student run on campus hackathon group
- Managing servers, designing websites, developing software used at hackathons, and teaching workshops to beginners

## Projects

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### Faculty Course Questionnaire: Anomaly Detection System

- An anomaly detection model based on Bayesian Networks to detect 'anomalous' replies to Faculty Course Questionnaire at University of Colorado Boulder
- Implemented in Python

### Artistic Style Transfer

- An implementation of *A Neural Algorithm of Artistic Style* in Python using TensorFlow
- Successfully extracted the *style* of an artwork and combined it with the *content* of another image

### Ruins Escapade: A game in C++

- A game written from scratch in C++, incorporating sophisticated graphics, where the player controls the hero who is trying to escape a labyrinth

## Skills

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### Languages

Experienced in C/C++, Python; Familiar with MATLAB, JavaScript

### Tools and Frameworks

TensorFlow, Django, Numpy, AngularJS, React, node.js

### Misc.

MATLAB/GNU Octave, Git, Heroku, AWS, AutoCAD