

# Ayush Goel

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## OBJECTIVE

Seeking a co-op / internship opportunity in Fall of 2019 or Spring of 2020.

## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

B.S. IN COMPUTER SCIENCE

B.S. IN COMPUTATIONAL

MATHEMATICS

2017-2021

GPA: 3.73

## LINKS

Github:// [ag-ayush](#)

LinkedIn:// [ag-ayush](#)

## COURSEWORK

Analysis of Algorithms  
Concepts of Computer Systems  
Mechanics of Programming  
Principles of Data Management  
Numerical Analysis

## SKILLS

### LANGUAGES

Python • C • Java • MySQL

### TOOLS

git • Linux • Flask • Bash • AJAX  
AutoCAD • Autodesk Inventor •  
Markdown • Bootstrap

## ACTIVITIES

### COMPUTER SCIENCE HOUSE

SEPTEMBER 2017 - PRESENT

EVALUATIONS DIRECTOR

A university community of computing centred people focused on technical and social development of its members.

### FRC@TEAM 174

SEPTEMBER 2015 - MAY 2017

Led the team as the project manager, programming lead, and drive team coach.

## EXPERIENCE

### ACADEMIC SUPPORT CENTER | SUPPLEMENTAL INSTRUCTION LEADER

August 2018 - Present | Rochester, NY

- Aid students in historically difficult CS (Python, Java) courses.
- Plan and facilitate weekly review sessions for the students in order to further their understanding and confidence in the language, thereby also refining my own knowledge of the fundamentals.

### STUDENT AFFAIRS AT RIT | ORIENTATION LEADER

August 2018 | Rochester, NY

- Responsible for introducing a group of New Students representing multiple programs from across the university during New Student Orientation to the RIT community through the use of ice breakers and other social/academic activities.
- Developed strong leadership, communication, and team building skills.

## PROJECTS

### RIDE BOARD [github.com/ag-ayush/rideboard](#)

A web application developed for hosting large-scale events during which users would like to carpool in order to reach their destination. The app was built using **Flask-SQLAlchemy**, **PostgreSQL**, **Python Flask**, **Flask-pyoidc** and **bootstrap**. I learned about relational databases using SQLAlchemy, database design, and hosting databases with phpPgAdmin.

### RIDE BOARD API [github.com/ag-ayush/RideBoardAPI](#)

A RESTful HTTP API developed for the CSH Ride Board application using **Python Flask**, **Flask-SQLAlchemy**, and **Flask-pyoidc**. The responses are produced in **JSON** format. I learned about APIs and parsing JSON.

### SMART SHADES [github.com/ag-ayush/smart-window-shades](#)

A web service, written with **Python Flask**, **bootstrap**, **JavaScript** and **AJAX**, that allows one to control their window shades. The physical shades system was built with a Raspberry Pi and a stepper motor. I learned about JavaScript, programming using RaspberryPi and working with hardware.

### BIG DATA AND EMPLOYMENT

Developed at ASA DataFest 2018, this was a **Java** application built to process datasets in CSV format. The application took the large dataset from Indeed and custom datasets found online as input to produce the states that would be the best for you to work in based on your job interest, experience, and other factors.

### WEBCHECKERS

A **Java**-based web server for the game of checkers that allows users to play against each other, against a computer, and spectate games. It utilizes the **Spark** web micro framework and the **FreeMarker** template engine.

## AWARDS

2017-2018 Dean's List at RIT  
2017 Best External Data at DataFest, RIT