# Ayush Goel

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## OBJECTIVE

Seeking a co-op / internship opportunity in Summer and/or Fall of 2019.

## EDUCATION

**ROCHESTER INSTITUTE OF TECHNOLOGY**
BS in Computer Science
BS in Computational Mathematics
Graduating May 2022
GPA: 3.80

## LINKS

Github:// **ag-ayush**
LinkedIn:// **ag-ayush**

## COURSEWORK

Mechanics of Programming
Principles of Data Management
Numerical Analysis

## SKILLS

**LANGUAGES**
Python • Java • C • MySQL

**TOOLS**
git • Linux • Flask • Bootstrap
AJAX • LATEX • Autodesk Inventor
Markdown • Bash

## ACTIVITIES

**COMPUTER SCIENCE HOUSE**
September 2017 - Present
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

- Aided students in historically difficult CS courses.
- Planned and facilitated the weekly eview sessions for students.

**STUDENT AFFAIRS AT RIT** | Orientation Leader
August 2018 | Rochester, NY

- Responsible for facilitating the transition of a group of first year and transfers students representing multiple programs from across the university during New Student Orientation.

## 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 **bootsrap**. 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 and programming RaspberryPi.

**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, expereince, and other factors. I learned how to work with large datasets.

**LANE FOLLOW BOT** github.com/ag-ayush/lane-follow-bot
A small software program written using **Python** and **OpenCV** to detect white lines on green grass and then output which direction to move in order to stay between the two lines. I learned how to work with basics of OpenCV.

## AWARDS

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