

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

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 • Bootstrap
AJAX • \LaTeX • Autodesk Inventor
Markdown • Bash

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

- Aided students in historically difficult CS (Python, Java) courses.
- Planned and facilitated the weekly review sessions for the students.

STUDENT AFFAIRS AT RIT | ORIENTATION LEADER

August 2018 | Rochester, NY

- Responsible for facilitating the transition of a group of first year and transfer 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 **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 specialize games. It utilizes the **Spark** web micro framework and the **FreeMarker** template engine.

VOLUNTEER WORK

FIRST@ ROBOTICS FINGER LAKES REGIONAL Various Roles

ELEMENTARY SCHOOL TUTORING Tutor

AWARDS

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