

Ayushi Agrawal

+1 (917) 204-4629
ayushi357agrawal@gmail.com
aja6540@psu.edu
github.com/Ayushi357
linkedin.com/in/Agrawal-ayushi

EDUCATION

Pennsylvania State University, University Park (GPA: 3.7/4.0)

Masters of Science in Computer Science and Engineering

Spring 2021 - 2022

National Institute of Technology, Bhopal, India (GPA: 9.23/10.0)

B. Tech. in Electronics and Communications Engineering

July 2016 - 2020

Relevant Coursework/

Skills: Algorithms Design & Analysis, Database systems (SQL), Data Structures & Algorithms, OOP concepts & Programming languages, Experience with Windows, Linux/Unix.

EXPERIENCE

Pennsylvania State University - University Park

State College, PA

Graduate Teaching Assistant CMPSC 465

Spring 2021 - Present

- Head TA for the course of Data Structures and Algorithms. Responsible for planning recitations for 40-50 students, designed worksheets, provided 3 hours per week of targeted coding sessions in different programming languages such as Python, C/C++, JavaScript.
- Held office hours for 2 hrs/week for students to receive 1:1 help, which boosted their performance by 25%.

Pennsylvania State University - University Park

State College, PA

Graduate Research Assistant

June 2021 - August 2021

- Built an agent in Minecraft to control using Project Malmö by Microsoft, that is an open-source agent simulation framework used for AI research platform.
- Fixed bugs in the code-base and modified the Python code that improved the accuracy in the movements of the agent by 15%.
- Trained the model on a large set of data to increase the object detection accuracy of the model.

Appointy Software Inc.

Bhopal, India

Full-stack Developer Intern

May 2019 - July 2019

- Worked alongside of the Product Development team, to implement RESTful APIs in ReactJS to increase the scheduling software reporting speed by 24%.
- Provided tremendous services to our clients by building a unit testing web application that reduced bugs reported by clients.
- Added multiple features to the front end design of company's website with a team of 5 interns that has 7,000+ monthly users, using HTML5/CSS3, JavaScript, ReactJS, Redux, Typescript, Angular 6/7, Material UI.

Chegg Inc.

Freelancer - Computer Science & Math Tutor

May 2018 - July 2019

- Q&A Expert in Computer Science and Advanced Mathematics and solved over 200 questions.

PROJECTS

PathFinding AlgoVision

- Built VanillaJS application for visualizing pathfinding and maze generation algorithms, implemented 9 different and unique pathfinding algorithms based on A* Search and Dijkstra's Algorithm.

Sorting AlgoVision

- Built a web application providing visualization for 5 popular sorting algorithms (merge sort, quick sort etc.)
- Renders animated sorts as a function of speed, input size and initial array configuration.
- Stack: Javascript, NodeJS, HTML/CSS, Launched on Heroku

Campsite Reviews Website (URL: <https://yelp-camp-app-ayushi.herokuapp.com/>)

- Fully responsive website built using RESTful routing and CRUD conventions using Vanilla JS, MongoDB.

E-Commerce Website

- Designed fully functional e-Commerce store with User and guest Checkout functionalities using Django.

ACHIEVEMENTS / ACTIVITIES

- Mentored 3 new freshman students with one-on-one weekly meetings regarding curriculum and general information as a part of **Association of Women in Computing (AWC)** at Penn State University.
- Winner of Hackathon Version Beta 2019 in a team of 3 where we created a chatbot with Python, AI and NLP.
Fall, 2018
- Got 2nd Place in the Hackathon Version Beta 2018 with my team "LetsCode".
Spring, 2018
- Technical Head at IEEE MANIT Student Branch: Responsible for reviewing paper submission of over 100 candidates and managing the paper presentation in the international conferences.