SIDHARTHA AGRAWAL

U.S. Permanent Resident (Green Card)

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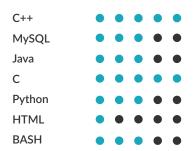✉️ agrawa96@purdue.edu

in sidhartha-agrawal-purdue

EDUCATION

Aug 2018 - May 2022 | **Bachelor of Science in Computer Science with minor in Mathematics (G.P.A: 3.73/4.00)**
Purdue University, *West Lafayette, Indiana, U.S.A* | **Year: Junior**
Dean's list 4 semesters

LANGUAGES

C++
MySQL
Java
C
Python
HTML
BASH

SOFT SKILLS

- Strong Work Ethics
- Positive Attitude
- Time Management Ability
- Good Communication Skills
- Quick Problem-Solving

EXPERIENCE 💼

June 2020 – Present | **Undergraduate Teaching Assistant, Purdue University,** *West Lafayette, Indiana*
- Assisting students for CS 252 (Systems Programming) coursework by holding office-hours and providing in-lab assistance

May 2020 - Present | **Undergraduate Research Assistant - Sandia Project, Purdue University,** *West Lafayette, Indiana*
- Working under the mentorship of Prof. Berkay Celik on a Sandia backed project
- Developing tools to generate realistic network traffic for Cyber Experimentation
- Implementing attacks on single and multiple hosts that exploit different vulnerabilities

May 2019 - Present | **Teacher, Purdue Undergraduate Student Board,** *West Lafayette, Indiana*
- Mentoring freshmen students majoring in Computer Science
- Guiding them to learn computer science with more understanding

May 2015 - Dec 2015 | **Supply Chain Management, Entek International,** *Kathmandu, Nepal*
- Managed supply chain for the store, and catalogued inventory, on their database, worth US $10000 daily
- Assisted on sales floor as needed to maintain service standards and increased sales by 10% in 6 months by studying about the flaws in their customer support and improving them with time

PROJECTS ✈️

Purdue University, *West Lafayette, Indiana*

Apr 2020 | **HTTPS Server** using C++
- Implemented a multithreaded HTTPS Server that services GET requests, maintains a log and status file.
- Developed a web-browsable directory with sort functions

Mar 2020 | **Unix Shell** using C++, Bison Grammar
- Implemented shell with the help of Bison Grammar
- Developed features like wildcarding and subshells

Jan 2020 | **Malloc** using C
- Developed memory allocator similar to malloc and free in C
- Inspired by the DLMalloc allocator

CODING ACTIVITIES </>

Sept 15 - Sept 16 2018 | **Hello World Hackathon, Purdue University,** *West Lafayette, Indiana*
- Collaborated in a team of five and tried creating reminder app using Google Calendar API

LEADERSHIP ACTIVITIES 👥

Apr 2017 - Apr 2018 | **School Publication Captain - School Student Council, Kendriya Vidyalaya,** *Kathmandu, Nepal*
- Collaborated with the Publication Club Members and had creative discussions aiming to increase readers
- Implemented a new idea of publishing e-Newsletters
- Edited and published magazines and e-Newsletters on a quarterly basis

VOLUNTEERING ⚙️

Dec 2018 - Jan 2019 | **Volunteer, Shree Panchkanya Basic School,** *Kathmandu, Nepal*
- Volunteered as a part time teacher to teach Mathematics and Computer Science to the kids from grade 7
- Created a Student Data Keeping System for the school

Jan 2018 - Jan 2018 | **Volunteer, Nishulk Bhojan - Pashupatinath Temple,** *Kathmandu, Nepal*
- Served poor people with free food and talked with them
- Made the poor aware about their rights by initiating campaigns in various parts of Nepal