

SIDHARTHA AGRAWAL

U.S. Permanent Resident (Green Card)

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[📁 agrawa96-sid.github.io](https://github.com/agrawa96-sid) | [in](#) sidhartha-agrawal-purdue | [📺 agrawa96-sid](#)

EDUCATION

- Purdue University-West Lafayette, Indiana, U.S.A. | Year: Senior** May '22
B.S. in **Computer Science** (Concentration in Machine Intelligence, Database & Information Systems) GPA: **3.67 / 4.0**
Minor in **Mathematics**
Certificate in **Entrepreneurship and Innovation**
Dean's list **7 semesters**

HARD SKILLS: C++ (Proficient), SQL (Proficient), Java (Proficient), C (Proficient), Python (Proficient), BASH Scripting (Familiar), R (Familiar), JavaScript (Familiar)

RELEVANT COURSEWORK: Operating Systems, Computer Security, Analysis of Algorithms, A.I., Computer Security, Database Systems, Data Mining and ML, Systems Programming, Data Structures and Algorithms, Computer Architecture, Probability, Statistics

WORK EXPERIENCE

- Software Engineer Intern | JP Morgan Chase & Co. | Columbus, OH (Remote)** Jun '21 – Aug '21
-Developed an internal-API module to retrieve job report for pipelines by querying data in a GOS DB using **SQL**
-Displayed the report in a front-end application built with **AngularJS**
-Wrote multiple **Junit** tests using **Mockito** to test the implementation in a controlled environment
-Operated within an **Agile** ecosystem consisting of daily stand-ups and **Kanban** board in **Jira** for progress tracking
- Undergraduate Research Assistant | Purdue University | Remote** May '20 – Sept '20
-Worked under the mentorship of **Prof. Berkay Celik** on a **Sandia backed project** that **generates realistic** network traffic and system events for Cyber Experimentation within Minimega VM(s) using different tools.
- Undergraduate Teaching Assistant | Purdue University | Remote** June '20 – May '21
-Guided students taking CS252 (Systems Programming) and CS240 (Intro to C) course at Purdue by providing in-lab assistance
-Held office hours and monitored the online forum **Piazza** to address doubts and help with **debugging**

INDEPENDENT PROJECTS

- AutoMa8** Mar '21 – Present
-An all-in-one tool suite that automates product monitoring across multiple websites using **Python** and **Selenium**
-Incorporated features such as **captcha-solving**, discord webhooks, and email alerts
-Made an impact on the gaming community by providing comparable performance to retail monitors for free!
- myInventory** May '21 – Present
-A GUI based inventory system using **Python** that uses **MySQL** to get the latest stats, track transactions and products for smoother business operations
-Implemented features like **auto-backup**, **auto-restore** to/from cloud
- SETGen - System Events and Traffic Generator** May '20 – Aug '20
-An all-in-one tool using **Python** and **BASH scripting** that automates Minimega VM creation, generates both Intra-VM and Inter-VM network traffic, and system events
-Wrote multiple scripts and **modeled** them to **emulate realistic user behavior** using tools like **Selenium**, **Wireshark**, **D-ITG**
- MeSHELL** Mar '20
-A Unix shell using **C++** that uses **Bison** to interpret the CLI input and service the requests with features like **wildcarding** and **subshell**
- SoRTViZ** Dec '19
-A simple visualizer using **JavaScript** for six familiar sorting algorithms with features like speed control and swap counter

LEADERSHIP AND VOLUNTEERING

- Volunteer | Shree Panchkanya Basic School | Kathmandu, Nepal** Dec '18 – Jan '19
-Volunteered as a part time Mathematics and Computer Science for grade 9 students
-Created a student database application using **Python** and **MySQL** with **AWS S3** cloud support for the school
- School Publication Captain | Kendriya Vidyalaya | Kathmandu, Nepal** Apr '17 – Apr '18
-Led the publication club and implemented a new idea of quarterly e-Newsletters that resulted in **8%** audience growth