agrawa96-sid



sidhartha-agrawal-purdue

agrawa96-sid.github.io

EDUCATION

PURDUE UNIVERSITY

W. Lafayette, Indiana, U.S.A

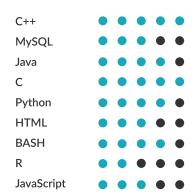
B.S. in Computer Science

(Concentration in Machine Intelligence & Computer Graphics and Visualization)

Minor in Mathematics Certificate in Entrepreneurship and Innovation

Expected Graduation: Dec 2021 Cumulative GPA: 3.74 / 4.0 Dean's list/Semester Honors: 4 semesters





SOFT SKILLS

- Strong work ethics
- Positive attitude
- Time management ability
- · Good communication skills
- Quick problem-solving
- Quick learner

COURSEWORK

CS381: Analysis of Algorithms* CS373: Data Mining and ML* CS252: Systems Programming CS250: Computer Architecture CS240: Programming In C CS182: Foundations Of CS CS180: O-O Programming STAT416: Intro to Probability STAT350: Intro To Statistics *In Progress

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Indianapolis, Indiana, USA

EXPERIENCE

SIDHARTHA

AGRAWAL

U.S. Permanent Resident

(Green Card)

UNDERGRADUATE RESEARCH ASSISTANT • PURDUE UNIVERSITY Virtual (COVID-19 Pandemic)

Mav '20 – Present Worked under the mentorship of Prof. Berkay Celik on a Sandia backed project that aims to develop tools to generate realistic network traffic and system events for Cyber Experimentation within Minimega VM(s)

UNDERGRADUATE TEACHING ASSISTANT • PURDUE UNIVERSITY Virtual (COVID-19 Pandemic) June '20 – Present

- Assisted students taking CS252 (Systems Programming) course at Purdue by providing in-lab assistance
- Held office hours and monitored the online forum Piazza to address doubts and help with debugging

TEACHER • PURDUE UNDERGRADUATE STUDENT BOARD

W. Lafavette, Indiana

Kathmandu, Nepal

May '19 – Present

- Tutored freshmen and sophomore students majoring in Computer Science with their coursework
- Improved their understanding of concepts by guiding them to solve LeetCode coding problems

SUPPLY CHAIN MANAGEMENT • ENTEK INT'L

May '15 - Dec '15

- Managed supply chain for the store, and catalogued inventory, on their database, worth \$5000 daily Increased sales by 5.2% in 6 months by studying the flaws in their customer support and improving them with time
- PROJECTS

SETGen - SYSTEM EVENTS AND TRAFFIC GENERATOR

An all-in-one tool using Python and BASH scripting that automates Minimega VM creation, generates both Intra-VM and Inter-VM network traffic, generates system events, etc. Wrote multiple scripts and modeled them to emulate realistic user behavior using tools like Selenium, Wireshark, D-ITG, etc.

GETweb

A multi-threaded HTTPS server using C++ that services GET requests and maintains server log. Integrated features like handling CGI requests and web-browsable directories with sorting options.

MeSHFLL

An Unix shell using C++ that uses Bison Grammar to interpret the CLI input and service the requests with features like wildcarding and subshell. Integrated a text-editor using C to browse through historical commands and edit the CLI request.

MeMALC

A **DLMalloc** inspired memory manager using **C** that allocates and deallocates memory similar to malloc() and free() in C.

SoRTViZ

A simple visualizer using JavaScript for six familiar sorting algorithms like Bubble Sort, Insertion Sort, Selection Sort, etc. Combined features like controlling speed and counter for swaps.

LEADERSHIP

SCHOOL PUBLICATION CAPTAIN KENDRIYA VIDYALAYA

Apr '17 - Apr '18

- · Led the School Publication Club and had discussions with members aiming to increase school magazine readers
- Implemented a new idea of publishing quarterly e-Newsletters that resulted in 8% audience growth

VOLUNTEERING

VOLUNTEER • SHREE PANCHKANYA BASIC SCHOOL Dec '18 - Jan '19

Kathmandu, Nepal

Kathmandu, Nepal

- Volunteered as a part time teacher to teach Mathematics and Computer Science to the students from grade 9
- Created a student database using C with AWS S3 cloud support for the school

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