Dhruv Agarwal

https://agdhruv.github.io dhruv.agarwal_ug19@ashoka.edu.in | +91 9013699205

EDUCATION

ASHOKA UNIVERSITY

B.Sc. (H), COMPUTER SCIENCE

May 2019 | Sonepat, India Dean's List (All Semesters) Major CGPA: 3.98 / 4.0 Cumu. GPA: 3.79 / 4.0

MT. ST. MARY'S SCHOOL

May 2016 | New Delhi, India Best of 4: 95.75%

SKILLS

PROGRAMMING

Proficient:

Python • C++ • JavaScript • PHP • CSS • HTML

Familiar:

C. Assembly • LATEX

Database Management:

MySQL • MongoDB

Others:

Git • Bash • Flask • Node.js

DESIGNING

Proficient:

Adobe Photoshop

COURSEWORK

UNDERGRADUATE

Discrete Mathematics
Probability & Statistics
Computer Organization & Systems
Advanced Programming
Operating Systems
Algorithms Design & Analysis
Data Visualization
Introduction to Machine Learning
Computer Networks

LINKS

Github:// agdhruv LinkedIn:// agdhruv

EXPERIENCE

AMPERSAND DESIGN | DEVELOPMENT INTERN

July 2017 - August 2017 | Gurgaon, India

• Developed industry standard interaction heavy web pages for the State Bank of India Card (SBI Card) website using HTML, CSS and JavaScript.

FREELANCER | DESIGNER AND DEVELOPER

June 2015 - Present | Gurgaon, India

- Developed the chatbot interface for the SBI Card homepage using HTML, CSS and JavaScript.
- Developed web applications for startups, initiatives and festivals using PHP, core WordPress and front-end technologies.
- Collected and mined data using API calls and scraping techniques.

PROJECTS

ASHOKA MENU AND SHUTTLE BOT Mar '17

- As IT Minister in the elected Student Government, developed a Messenger Bot to inform users about the mess menu for the day, timings of the shuttle service, etc.
- Over 800 unique users and 190k messages sent and received.
- Awarded "Creative and Entrepreneurial Initiatives" award by the Vice Chancellor.
- Tech stack Python (+ Flask), MongoDB and Facebook APIs.

ENERGY MONITORING SYSTEM Aug '17 - Dec '17

- Developed a prototype to inform the occupants of a room about their real-time energy wastage, and allow comparison with their past statistics in monetary terms.
- Tech stack Arduino (C++), Raspberry Pi, Python (+ Flask), MySQL

PRISON ESCAPES IN INDIA—VISUALISATION Feb '18

- Used the National Crime Records Bureau (NCRB) data to find the causation of prison escapes in India. Documented here.
- Used geovisualization tools and JavaScript based visualization techniques.

VAHN: VEHICLE ACCIDENT HAZARD NOTIFIER Aug '18

- Developed a real-time Smart City system for automatic detection and reporting of road accidents, using a machine learning and vision algorithm, for reduced relief response time and avoiding chaining of accidents.
- Adjudged 5th best project out of 400 teams pan-India at Hack-IIITD.

SIGNATURE VERIFICATION/FRAUD DETECTION Nov '18

• Trained a convolutional neural network to detect forgeries in signatures to detect fraud in virtually any human-oriented setting.

TEAM EXPERIENCE

- Head of Tech team for inaugural inter-varsity cultural fest Founder and organizer of the inaugural inter-varsity sports fest
- Fest Secretary of the sports fest (headed 70 member team)Started "Project Muskaan" to teach computers to village kids
- 2016-2018 Represented University in Badminton, Lawn Tennis, and Football