Vatsal Agarwal

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY
B.Tech - Mathematics And Computing
Expected May 2021 | Delhi, India
CGPA(Till 3rd Year) - 8.96 cgpa

M.M. PUBLIC SCHOOL
Completed in 2017 | Delhi, India
CBSE(2017) - 94.6%

FATHERSON SENIOR SECONDARY PUBLIC SCHOOL
Completed in 2015 | Bijnor, India
CBSE(2015) - 10.0 cgpa

SKILLS

● C ● C++ ● HTML ● JavaScript ● CSS ● MySQL ● Node.js ● Express ● MongoDB ● PostgreSQL ● Bootstrap
Familiar:
● Git ● Firebase ● Socket.io ● React ● PHP ● MVC ● Neural Network ● PCA ● Fuzzy Logic

COURSEWORK

UNDERGRADUATE
● Data Structures
● Algorithm Design And Analysis
● Database Management System
● Operating System
● Objected Oriented Programming
● Differential Equation
● Financial Engineering

ONLINE COURSES
● Web Developer Bootcamp
● C++ With Data Structures

ACHIEVMENTS

● 2017 School Topper in 10+2
● 2017 Maulik Bharat 10+2 award in association with Cultural Ministry of India
● 2015 All round performace in 10th and clearing NTSE Stage-1

POSITIONS

● Corporate | Publicity | PR Organizer | Paper Reviewer | ICAPIE
● Head, Publicity, ICAPIE, 2019
● CoHead, E-cell, DTU, 2019
● Life Time Member, CAPIER, DTU
● Volunteer, ICRAPAM

EXPERIENCE

KUBIXSQUARE PVT. LTD. | Web Developer Intern ↗
🗓 June 2020 - Present
● Building various modules for the ERP Software to automate day-to-day tasks.
● Completed financial and registration module using Node, Express and Postgre.

OPTUM | UnitedHealth Group ↗
🗓 June 2020 - July 2020 | ⚲ Virtual Internship
● Online industrial training and e-learning experience in MySQL and JavaScript.

JPMORGAN CHASE AND CO. | InsideSherpa ↗
🗓 May 2020 | ⚲ Virtual Internship
● Established a Stock Price Data Feed using JPMorgan Chase frameworks and tools and displayed data visually for traders.

BHAROSA TECHNOVERSE PVT. LTD. | Web Developer Intern ↗
🗓 Oct 2018 - Dec 2018 | ⚲ Delhi, India
● Developed new web pages and modified existing content for the official website.
● Understood basics of mutual fund and acted as facilitator for WealthSimple app.
● Gained insights into backend technologies PHP, MVC, Yii, MySQL, Xampp.

PROJECTS

COVID-19 NEWS ↗ (🗓 April 2020)
● Developed a portal to get latest updates on COVID-19 stats and news.
● Incorporated statewise COVID-19 numbers and statistical representation using graphs.

INTRUSION DETECTION SYSTEM WITH DEEP NEURAL NETWORK ON CSE-CIC-IDS2018 ↗ | Ongoing Research Paper (🗓 Nov 2019 - Present)
● Pre-processed data with 15 Million+ entries with 80 features. Reduced features to get 34 distinct features using PCA.
● Developed a Deep Learning model trained predicted network intrusion with 99.45% accuracy.

ETHICAL HACKING | CRYPTUS SECURITY PVT. LTD. (🗓 Feb'19)
● Made a payload check and prepared it to attack and exploit the sample android, which can be operated from host of payload.
● Created a credential harvester which makes victim enter their credentials and send them to host.

DTU DEVELOPERS NETWORK ↗ (🗓 Jan 2019 – March 2019)
● Developed a college exclusive portal that aims to inculcate a more opportunistic coding environment among budding coders.
● Developed complete User Interface and parts of backend; involved in the RnD work along with the core team.
● Technical Specifications: Bootstrap, Express, NodeJS, MongoDB; and various Middleware : passport, nodemailer, multer.

PUBLICATION - STUDY AND APPLICATIONS OF FUZZY SYSTEMS IN DOMESTIC PRODUCTS | LNME, SPRINGER (ISSN: 2195-4356) ↗
● Studied about fuzzy logic, its model, MATLAB implementation and discussed its application in various domestic products.
● Suggested its application in domestic iron and discussed benefits.