BRIJGOPAL BHARADWAJ

Enthusiastically focused at achieving the professional excellence, and willing to put in the required efforts. I enjoy the process of creative adaptation, to come up with the best possible solution in the given time frame.

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SKILLSET

I am familiar with the following technologies, and have experience in their pragmatic implementation

React	Redux	Node.js
ML	DL	IoT
HTML · CSS · JS	Python	Java
SQL	MongoDB	Firebase

EXPERIENCE

TECHNOLOGY INTERN • June 2020 – Oct 2020
Internship | Virtusa Consulting Services Pvt. Ltd.
Remote
Developed a smart-parking system, comprising of a *Raspberry-Pi* based sensor and actuator network, a *Node.js* server with a *MongoDB* instance for database, diagnostics and control operations, and an *Angular* admin dashboard. Also performed proof-of-concept analyses and implemented testing applications for *CoAP* protocol and hashing paradigms.

FULL-STACK DEVELOPER • July 2019 – Feb 2020
Internship | CamCann Smart System Technology Pvt. Ltd.
Technology Business Incubator (VIT-TBI), VIT Vellore, Tamil Nadu, India
Developed various web-apps using the *MERN* stack, including a portal for advertisers to control the electronic ad-boards in VIT campus, an integrated web-interface to monitor the CCTV camera-feeds of VIT campus, and an attention-monitoring service for online classes.

SOFTWARE INTERN • May 2019 – June 2019
Internship | Beam Diagnostics & Coolant Systems Division
RRCAT, Department of Atomic Energy (DAE), Indore, Madhya Pradesh, India
Developed a GUI-based *MATLAB* application for the identification of beam state, for the *INDUS-2 SRS* particle accelerator (a national facility). The application combines *ML* and *data-mining* concepts to gain insights by analyzing the historical data, for effective diagnostics.

EDUCATION

✓ B. Tech. CSE — 2017-21
CGPA: 9.25
Vellore Institute of Technology
Vellore, Tamil Nadu, India

✓ 12th, CBSE — 2016-17
89.4%
Atomic Energy Central School
Indore, Madhya Pradesh, India

✓ 10th, CBSE — 2014-15
CGPA: 9.6
Atomic Energy Central School
Indore, Madhya Pradesh, India

PUBLICATIONS

✓ Image Encryption using a Modified Pseudo-Random Generator
Feb, 2020 | *2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE)*, **IEEE**

✓ Symmetric Key Encryption Using A Simple Pseudo-Random Generator To Provide More Secure Communication
Mar, 2018 | *International Journal of Technical Research & Applications* **(IJTRA)**

HOBBIES

Piano & Keyboard   Sci-Fi Movies   Mystery Novels
Vocal & Music   Workout   Badminton

PERSONAL PROJECTS

Connect +
MERN stack | web development
A Social Networking Platform, being built with a special emphasis on the UI/UX aspects of development.

Home Automation System
Python - Firebase - Android | Internet of Things (IoT)
A Raspberry-Pi controller & a mobile app to automate and remotely operate the common household appliances.

Riyaaz
React - Electron.js | Reinforcement Learning (AI)
A content-based music recommendation system that uses non-stationary Bayesian learning to suggest local playlists.

Bone-Scan Enhancer
C++ - OpenCV - OpenMP | Image Processing (IP)
A CLI-based application that facilitates the enhancement of the X-ray bone-scans, for convenient and efficient diagnosis.