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Portfolio: <https://shr100.github.io/>

HIGHLIGHT OF SKILLS

- Six years of data science and software development experience polished through the completion of a Master's degree in May 2021.
- Advanced technical skills in numerous languages including Java, Python, C++, HTML, CSS, JavaScript and MySQL.
- Experience in managing and leading projects and proprietor of strong teamwork skills acquired through years of collaboration in academia.

EDUCATION

M.Sc. Computing Science, University of Alberta, Edmonton.

Sept 2019 - June 2021

B.E. in Computer Science, Anna University, Chennai, India

August 2015 – May 2019

INDUSTRY EXPERIENCE

Software Engineer Intern, Makesto Infotech Private Limited, Chennai, India

May 2018 – July 2018

- Developed a JavaScript plugin, which was used internally for supporting 3D models in the GL Transmission Format and achieved dimensionality reduction of 3D models, with minimal data loss, in Python.
- Dimensionality reduction was very important for the mobile visualization of a target object with minimal load times.
- Demonstrated problem solving skills while working to fix bugs efficiently, when developing the JavaScript plugin.
- Acquired organizational skills through working in a fast-paced Agile Scrum environment.

Software Engineer Intern, L&T Technology Services, Chennai, India.

June 2017 – July 2017

- Contributed to the front-end of the web application assigned to my Intern team.
- Individual contributions included developing the login, sign-up and deposit pages using HTML5, CSS3 and JavaScript.
- Excellent written and communication skills were acquired, as evidenced by contributing to the software documentation.

SELECTED PROJECTS

Natural Language Processing and Knowledge Graphs, University of Alberta

January 2020 – April 2020

- A Natural Language Processing based project which focused on relation extraction between a pair of entities in Knowledge Bases using a clustering algorithm.

• Demonstrated critical problem-solving skills and acquired exceptional written skills by contributing to the documentation of methods used. Created using Python and tested on KnowledgeNet relations.

Internet of Things, University of Alberta

January 2020 – April 2020

- Developed a system to assess geriatric frailty using four smart devices which could be monitored from afar.
- Demonstrated knack for active learning, where productive work was done to solve a problem for Withings. Tech stack: MongoDB, Python, React.js

Natural Language Processing, Anna University

December 2018 – May 2019

- A Machine Learning based project that detects the early onset of depression using the RSDD dataset and processed using Natural Language Processing.

• Demonstrated effective communication skills while presenting the project at the Reverse EXPO conducted at the University of Alberta.

• Created using Python and the Reddit Self-reported Depression Diagnosis (RSDD) dataset.

Visual Aid System: (Patented), Anna University

August 2017 – December 2017

- Developed a Visual Aid storytelling system used in story telling sessions for visually challenged children.
- It consisted of an interactive computer and sensor system and when scenes from stories were fed to the computer, the sensors rose to depict the scene.
- Demonstrated mentation by developing a novel method for the general use of visually impaired children.
- Tech Stack: C++