

Shruthi R Edmonton, Alberta | shruthi@ualberta.ca | <https://www.linkedin.com/in/shr-r/>

PORTFOLIO: <https://shr100.github.io/> | **GITHUB:** <https://github.com/shr100>

INDUSTRY EXPERIENCE

- | | | |
|---|--|------------------------------|
| Software Engineer | Neurotrack Technologies Inc. | May 2021 - Present |
| <ul style="list-style-type: none">As a Backend Engineer, worked on building non-invasive cognitive tests for the early detection of Alzheimers and dementia.Conceptualized the idea of a coaching service to help customers improve their cognitive health, used by 100+ clients within the first 3 months. | | |
| Mitacs Accelerate Intern | Ethically Aligned AI | March 2021 – May 2021 |
| <ul style="list-style-type: none">Analyzed literature across different domains in order to produce proof-of-concept for validating ethics.Collaborated with a diverse class of businesses to identify specific business needs for building fair machine learning systems.Strategized the implementation of a common tool for validating ethics. | | |
| Data Scientist Intern | Famwork | Dec 2020 – May 2021 |
| <ul style="list-style-type: none">Leveraged analytical and data visualization techniques for integrating machine learning models into electronic health record systems and built a chatbot for the patient portal.Spearheaded the automation of the telehealth system for the minimum viable product and improved accuracy of the system to forecast diseases the patient was susceptible to acquire, by 80%.Strategized the improvement of customer satisfaction by 50%, by automating the EHR system. | | |
| Software Engineer Intern | Makesto Infotech Private Limited | May 2018 – Jul 2018 |
| <ul style="list-style-type: none">Launched a JavaScript plugin, which was used internally for supporting 3D models in the GL Transmission Format.Established a framework for achieving dimensionality reduction of 3D models by 30%, with minimal data loss, in Python.Collaborated with a team of 10+ people to maximize retail sales at Target by 80%, incorporating 3D modeling. | | |
| Software Engineer Intern | Larsen & Toubro Technology Services | Jun 2017 – Jul 2017 |
| <ul style="list-style-type: none">Utilized agile practices and developed the login, sign-up, and deposit pages for the company using HTML5, CSS3, and JavaScript.Participated in code reviews and collaborated with 5+ people to build a complex, scalable software system.Perfected the existing system by improving security against SQL injection attacks by almost 70%. | | |

EDUCATION

| | |
|---|----------------------------|
| M.Sc. Computing Science , University of Alberta, Edmonton. | Sep 2019 - May 2021 |
| B.E. in Computer Science , Anna University, Chennai, India | Aug 2015 – May 2019 |

SELECTED PROJECTS

- Noise Eliminator in Active Learning (NEAL – 2020).** An algorithm to produce **highly accurate machine learning predictions** with a very **low amount of training instances**. **Improved** over **previous systems** by **30%**. **Python**.
- Early Detection of Depression using text sequences (2019).** A system that **detects** the **early onset of depression** using the RSDD dataset and processed using Natural Language Processing. Achieved an **accuracy** of **99%**. **Python**.
- Assessment of geriatric frailty – Internet of Things (2020).** System to **assess geriatric frailty** using four smart devices which could be monitored from afar, developed for the company Withings. **MongoDB, Python, React.js**
- Patented Visual Aid System (2017).** A **Visual Aid storytelling system** utilized in storytelling sessions for **visually challenged children** that 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. **Used** by over **50+** schools. **Java, MATLAB**.

TECHNICAL SKILLS

| | |
|--------------------|--|
| Languages: | Python, Java, C++, HTML, CSS, JavaScript, PHP |
| Libraries: | NumPy, Pandas, Matplotlib, Scikit-Learn, Keras, NLTK, Gensim, spaCy, TensorFlow, PyTorch |
| Databases: | MySQL |
| Tools: | Jupyter Notebook, Google Colab, Github, Excel |
| Platforms: | Microsoft Windows, Ubuntu Linux, macOS |
| AWS Tools : | AWS Lambda, DynamoDB, Cloudwatch, Cognito |