

SHRUTHI SRINIVASAPRASAD

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An optimist with a sense of reality and always willing to explore innovative ideas. Curious about the interdisciplinary fields of physics, mathematics, and computer science.

EXPERIENCE

JUN 2020 – PRESENT

SOFTWARE ENGINEER 1, CERNER CORPORATION

Worked on full stack web development to rewrite 4 applications entirely to enhance its capabilities while using the latest frameworks for better stability and to future proof. The rewrite was completed using C#, .NET Core MVC (Model View Controller), ReactJS, T-SQL. Also headed the development for one of the web applications and developed base architecture for the same before working on the rest of the application.

DEC 2019 – JUN 2020

SOFTWARE INTERN, CERNER CORPORATION

Worked on .NET REST (Representational State Transfer) APIs on a ticket logging software and a secure network connection software. Also worked on PowerBI to visualize data from an Oracle Database for analysis.

EDUCATION

JUN 2020

B. TECH IN INFORMATION TECHNOLOGY, CHRIST (DEEMED TO BE) UNIVERSITY

Cumulative GPA: 3.12/4.00

SKILLS

- C/C++
- Java
- C#
- .NET/.NET Core
- ReactJS/Redux
- T-SQL
- MS PowerBI
- Python
- Tensorflow
- Keras
- Scikit-learn
- NLP Language Models

PROJECTS

SMART CITY (Oct 2018) Tech Stack – Python

An IoT implementation of a miniature city with smart lighting, parking, irrigation, and waste disposal systems, all connected to an Android application for citizens to use. Included the deployment of various sensors to get change notifications that in turn started the actions necessary; controlled by RaspberryPi 3 microcontroller.

PLANT DISEASE CLASSIFIER (Nov 2019) Tech Stack – Python

Worked on classifying healthy plants from disease-ridden plants based on the color and texture of the leaves using the K-Nearest Neighbor algorithm. Classification of disease-ridden plants was into three types – bacterial disease, leaf spots, and others.

FACE THE BOOK (Oct 2020) Tech Stack – Python, ReactJS, Redux

Built an application to enable associates to share the books they own with others, while suggesting new books using NLP with Naïve Bayes and SVM. The suggestion classification was based on the data about books they had previously borrowed and books they read the descriptions of. The application was comprehensive i.e., every book borrowed was kept track of, and emails were sent to associates about the due date, etc.

PATENT MANAGEMENT APPLICATION (Aug 2021) Tech Stack – C#, .Net Core, T-SQL, ReactJS, Redux

Created a novel patent management application for all of Cerner associates to track their patent claims, while admins had their admin functionalities to change the status of submitted patent claims. It also includes an in-app search bar for searching existing patents implemented using Google ElasticSearch.

PUBLICATION

“Measuring the accuracy of machine learning algorithms when implemented on astronomical data”

Researched and worked on classifying 3 celestial objects using SVM and Logistic Regression based on the differences in the photometric band data and the redshift. Compared the accuracies of these two algorithms based on the f1-scores each algorithm showed. [Presented it in the international conference](#) – 2nd Congress on Intelligent Systems.

To be published in Scopus Indexed Springer Book Series – ‘Lecture Notes on Data Engineering and Communications Technologies’

AWARDS/COURSES

MACGYVER DAYS HACKATHON – Winner 2020, 2021

MACHINE LEARNING BY ANDREW NG – Coursera

PYTHON FOR BEGINNERS – Coursera

VOLUNTEER WORK

UNIVERSITY STUDENT COUNCIL

Volunteered as a member of the council for 2 years to improve quality of student life at the university by working with administration to resolve student issues.

PEER EDUCATION SOCIETY

Helped to educate students on psychology, physical and non-physical boundaries, intrapersonal and interpersonal communication, and gender and sexuality.

UNIVERSITY VOLLEYBALL TEAM

Part of the university Volleyball A team for 4 years, and winner of ChriSpo (an inter-university sports event) 2 times.

FIRST HAND FOUNDATION

Volunteered to teach English, Mathematics, Food habits and Physical Health to underprivileged students from nearby schools as part of Cerner’s non-profit charity foundation.