SHREE RAM ABAYANKAR BALAJI

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EDUCATION

Doctor of Philosophy, Computer Science, University of North Dakota, Grand Forks (GPA 4.0) 2022 - Present
Advisor: Dr. Prakash Ranganathan

Bachelor of Computer Science, Adhiyamaan College of Engineering, India (CGPA - 8.87/10) 2018 - 2022

SKILLS

Security	Nmap, Wireshark, Autopsy
Tools	Git
Programming Languages	Python, C, C++, Dart, Java
Databases	MySQL, Oracle XE, MongoDB
Web Technologies	HTML5, CSS, JavaScript, Bootstrap

RECENT PUBLICATIONS

- Forecasting Geomagnetic Storms using Machine Learning Models (Accepted for IEEE CCWC 2024)

- Cybersecurity Challenges and Solutions in IoT-based Precision Farming Systems (Published in IEEE UEMCON 2023)

- Correlation of Egg counts, Micro-nutrients, and NDVI Distribution for Accurate Tracking of SCN Population Density Detection. (Published in IEEE EIT 2023)

EXPERIENCE

Graduate Research Assistant Aug 2022 - Present
University of North Dakota, Grand Forks *Grand Forks, ND*
Advisor: Dr. Prakash Ranganathan

- My duties include applying various machine learning models to various data sets, analyzing and visualizing the results, and creating graphical representations to communicate the findings.

Graduate Teaching Assistant Jan 2023 - Present
University of North Dakota, Grand Forks *Grand Forks, ND*
Instructor: Dr. Marina Kim *Course: CSCI 435: Formal Language and Automata*[Fall 2023]
Instructor: Dr. Fatima Kuehn *Course: CSCI 280: Object Oriented Programming in Java*[Spring 2023]

- As a teaching assistant, I have a range of duties to perform, such as grading homework, supervising exams, running lab sessions, and giving lectures.

Full Stack Developer Intern Dec 2021 - July 2022
SISCASO Pvt Ltd., *Hosur, TN, India*
Tech stack: Python, Flutter, MongoDB, MySQL, ReactJS, Flask framework

- Language assessment application that tests user's linguistics skills in Reading, Writing, Listening, and Speaking.

- Assessment application that can test on MCQs, MSQs, Short, and long answerable questions.

- Search application for patients that can be used to find registered medicine practitioners nearby and also a fitness and medical leave certificate generation application that can generate certificates for registered medical practitioners.

RECENT AWARDS, CERTIFICATIONS AND ACHIEVEMENTS

All the previous Awards, Certifications and Achievements can be viewed here
2023:

- Mentors Helping Mentors - UND link

- ISC2 Certified in Cybersecurity link

- Fundamentals of Deep Learning - Nvidia link

2022:

- Won "Best Graduate Level Poster Award" for the poster "Cybersecurity Attacks in Vehicular Sensors" in the CARS 2022 Symposium

COMPETITIONS

2023:

- Led a team of 4 members in the Cybersecurity National Level Competition (2023) – Cyberforce and secured 49th rank out of 105 teams organized by the U.S. Department of Energy and Argonne National Laboratory. Check out the UND blog about the competition

2022:

- Participated in a team of 4 members in the Cybersecurity National Level Competition (2022) – Cyberforce and secured 55th rank out of 169 teams organized by the U.S. Department of Energy and Argonne National Laboratory.