

Gaurav Dilip Nale

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EDUCATION

Master of Science, Computer Science

University of Texas at Arlington

Aug 2021 – May 2023

Bachelor of Engineering, Computer Engineering

University of Mumbai, Vidyalkar Institute of Technology

Aug 2014 - Jun 2018

SKILLS

Programming Language: C#, C, C++, Python, PHP, Java

Database Systems: MySQL, MongoDB, Oracle DB, SQLite3

Web Technologies and Framework: ASP .NET, Angular JS, HTML, CSS, WordPress, Bootstrap, Tkinter, PythonQt

Operating Systems: Windows, Linux Distributions, MacOS

Tools and other technologies: DevOps, Azure portal, Bitbucket, Octopus, Git, Firebase, Postman, Agile

RELEVANT COURSEWORK

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|-------------------------------------|----------------------------------|---------------------|
| • Artificial Intelligence I | • Computer Architecture II | • Computer Networks |
| • Data Mining | • Data Analysis & Modeling Tech. | • Database Systems |
| • Design and Analysis of Algorithms | • Distributed Systems | • Machine Learning |
| • Software Engineering II | • Web Data Management | |

EXPERIENCE

Graduate Research Assistant, CSE Dept, The University of Texas at Arlington

Apr 2022 – Present

- Working in computer vision projects with machine learning that involve human activity recognition, video analysis, etc., to automate systems that assess people with different physical and cognitive abilities.
- Developing an AR application to integrate SLAM based maps to android application using C#, Unity and Augmented Reality.
- Maintaining Heracleia Human Centered Computing website.

PETRA '22 International Conference Organizer, CSE, The University of Texas at Arlington

Apr 2022 – Jun 2022

- Organizing and coordinating an International Conference, Pervasive Technologies Related to Assistive Environments (PETRA) held in Corfu Island, Greece.
- Maintaining PETRA Conference website.

Systems Engineer, Tata Consultancy Services

Nov 2018 - Jun 2021

- Worked as a full-stack developer to handle many websites and give essential modification and updates. Created automation scripts in ASP.NET and SQL queries for effective website testing, including managing a complete database and troubleshooting problems for any application.
- Worked on ASP .NET, MVC, MySQL, Azure, AngularJS, and HTML for these applications.

PROJECTS

Understanding cognitive and physical fatigue in human using ROS

- Developed a web application to collect data from EEG and ECG sensors attached to humans using Robot Operating System and Python.
- Technologies: ROS, Python, Tkinter.

Student Serv' Management System

- Using PHP/Laravel, a role-based access control system website with three privileged roles (Student, Staff, and Admin) was developed. It was created with the ability for students to make purchases, form and join clubs to mingle with other students, and publish original content online that was made available by the staff.
- Technologies: HTML, CSS, Laravel

Virtual Stock Market Simulator

- Created a virtual stock market environment to mimic the functioning of a real cattle market and aid users in understanding investing fundamentals and how the stock market operates as a whole. Using natural language processing, the system's stock values will fluctuate based on the daily news (NLP). built an intuitive website that makes it simple to comprehend and learn about stocks.
- Technologies: NLP, Machine Learning, Data Mining, HTML, CSS.

TECHNICAL PAPER

Analysis of Factors Influencing Stock Market Simulator

Idea paper explaining the effects of factors affecting stock market and its implementation published in IndiaCom International Conference, an IEEE recognized conference in 2018