

SNEHA RAVICHANDRAN

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TECHNICAL SKILLS

Programming & Web Technologies: Python, JAVA, C++, C, Bash, HTML, CSS, JavaScript

Tools: Eclipse, Flask, Arduino, Netbeans, OpenGL, PyCharm, Git

Database: MySQL, SQL Alchemy

Identity & Access Management: Ping Directory, Ping Access, Ping Federate

Certifications: PingIdentity Professional: Ping Access, Ping Federate

EDUCATION

Northeastern University, Boston, MA GPA: 3.67 Expected Graduation: Dec. 2022
Candidate of *Master of Science in Information Systems* Co-op Eligibility: Dec. 2021

CMRIT Bangalore, India GPA: 3.7 Aug. 2014 - Jun. 2018
Bachelor of Engineering in Computer Science Engineering

PROFESSIONAL EXPERIENCE

Gordon CenSSIS/ ALERT Northeastern University, Boston, MA Jan. 2021 – present
Data Validation Assistant

- Generating ground truth for projects involved with the Department of Homeland Security

Simeio Solutions Pvt Ltd., Bangalore, India Aug. 2018 – Dec. 2020
Senior Associate IAM Consultant

- Onboarded applications and set up Single Sign-On configurations using Ping for Royal Dutch Shell
- Involved in DR activities and maintenance of server, certificate tracker and trained freshers
- Analyzed root cause problems and handled major incidents and change tickets

Accomplishment: Automated monthly manual work using Java and Python that helped save **240 man hours**

Certes Networks, Bangalore, India Mar. 2018 – Jun. 2018
Intern

- Designed and built a REST API using Python Flask web framework for performance measurement & monitoring
- Performed extraction, transformation and loading of raw data using CRON jobs, Python and SQLAlchemy

Accomplishment: Helped visualize packet drop rate **immediately** after a trial run using the REST API

PROJECTS

Hazardous Asteroid Prediction(Python, NumPy, Pandas, Matplotlib, Jupyter) Jan. 2021 – Apr. 2021

- Cleaned, performed EDA, balanced the NASA JPL Asteroid dataset using SMOTE and visualized it
- Calibrated 4 Supervised ML Classifier Algorithms, tuned hyperparameters & calculated F1 & Accuracy scores

24*7 Healthcare Management System (Java, Netbeans) Jan. 2021 – Apr. 2021

- Developed an online healthcare application to provide patients an efficient system for online consultation
- Streamlined the process of appointment, bill payments, report generation, medicine approval, order and delivery

Citizen Record Management (MySQL, SSMS, Lucid chart, PowerBi) Jul. 2020 – Aug. 2020

- Modeled the ER diagram, UML and Implemented triggers, procedures, functions, and table-level constraints
- Created data visualization reports using PowerBi and wrote SQL queries for fetching data from the database

Smart Greenhouse using IoT (Arduino, Embedded C) Feb. 2018 – Jun. 2018

- Invented a device for controlling & monitoring greenhouse attributes such as temperature, soil moisture & sunlight
- Designed, architected, built the system using Arduino, node MCU and used embedded C, HTML for the UI

Accomplishment: Resulted in a **32% quicker yield** of rabi crops which were used as test subjects

ADDITIONAL EXPERIENCE

Northeastern University, AI Skunkworks *Vice President of Student Engagement* Sep. 2021 – present
-Conducted Machine learning workshops, organized and executed student engagement initiatives

CMRIT *Event Coordinator & Rotaract club head* Aug. 2014 – Aug 2018
-Organized the Voters id drive through which 750 students got their id's and could vote in the next election
-Established the Tech club (arranged hackathons) & organized the Photography event for our annual cultural

Achievements:

Won Persistent Inspiration award at Smart India Hackathon for the malaria surveillance project Nov. 2017
Secured First place at Srishti for the Women Empowerment website project '**Awakening Eve**' May. 2016