Purandhar Sundaramoorthy

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EDUCATION

Binghamton University, State University of New York
Master's in Computer Science   Expected June 2024
Designs and Analysis of Algorithms, Database Systems

Anna University, Chennai, India
Bachelor's of Engineering in Electrical and Electronics   Aug 2015-May 2019
Cumulative GPA: 3.3/4

TECHNICAL SKILLS

Languages: Python, Javascript, C, Embedded C, C++, SQL   **Web-Development:** React, HTML,CSS, MERN Stack
Tools: PowerBI, NumPy, Scikit, Pandas, Matplotlib, Dask, Keras   **Database:** MySQL, Oracle, MongoDB
IoT: TASMOTA, Node-Red, MQTT   **Cloud**: AWS, GCP

PROFESSIONAL EXPERIENCE

Systech Solutions, Associate Software Engineer | Chennai, India   Nov 2021 – Mar2022
- Programmed an ML Product called Dopplr which can simplify the process of Analytics and Machine Learning experiments with Machine Learning algorithms like LR, ANN, XGB, RandomF, K-Fold for fraud detections using Python and its tools
- Developed Software tools using python to automate database migration codes within databases provided with metadata
- Optimized the SQL queries involving multiple complex tables, boosting the loading performance speed by 15%

Apar Innosys, Associate System Analyst | Chennai, India   Mar 2020 - Oct 2021
- Engineered a Product Life Cycle of an IoT model in Innoculate(a highly scalable SaaS product) for security and monitoring reasons
- Developed a software tool for increasing the overall efficiency of the IoT model by 5%, by handling software services using Python
- Collected valuable insights using MongoDB for diagnosing and upgraded the reliability of the system with automation softwares in python to improve the model stability by 10%
- Analyzed 10 million data samples using tools in python and brought out a statistical validation for decision making

PROJECT EXPERIENCE

V'amass (v-amass.herokuapp.com)   May 2022-Present
- Developed a Social Media web application using MERN Stack and facilitated the web application with accounts, authorization, posting images, commenting, and watching timeline events of the connections
- Utilized various tools and technologies of Javascript like React, redux hooks for the frontend of the application and used databases like MongoDB for structural and GCP for non-structural data storage

Data Analysis on Fire Incidents   Nov 2022 - Dec 2022
- Analyzed JSON data using MongoDB on fire incidents that happened in a city (2018-2021) and brought out the correlation between the seasons and incidents that happened along with the district's trends over a period of time.
- Evaluated using Mongo Shell, Pymongo and Power BI for pre-planning the resources accordingly and also to be proactive.

Drawbot (**HACKATHON**)   Aug2017
- Designed a self-operating mobile machine using C language that finds the best path to maneuver and to explore an unprecedented area to get a 2D layout out of it, making it a map-making robot which was programmed with wireless sensors

Robotic Arm
- Developed an Android Application using MIT App inventor to remotely control a 3D Printed arm using Bluetooth   Oct 2018
- Programmed the arm with a challenging mathematical algorithm that works synchronized in $360^\wedge$ at maximum accuracy

EDUCATIONAL EXPERIENCE
- Intellipaat- Full Stack MERN development course   Apr2022-Present
- AWS- Builder Online series on AWS services   July 2022
- Udemy- AWS Cloud integration and cloud communication using Amazon AWS IoT Core.   Apr 2020
- Programming certification in C and C++ from Apollo computer education   May2017

CONFERENCE PRESENTATIONS
Presented a Paper in an International Conference on "ICIECS"(Information, Embedded and Communication System) associated with "IEEE" and "IET", on "Real-Time Power Monitoring using Microcontroller "organized by the St. Joseph College of Engineering in 2019

ACHIEVEMENTS

- First place in the "Tech Quiz" competition at a National level Techfest called Invente 3.0 at SSN College of Engineering with multiple rounds of challenges with participant size of 50   Sep2018
- *Leadership Excellence* Award for outstanding administration as a LEO club President by the International LIONS club for organizing blood donation camps, awareness classes for under-rated schools, and assistance during Natural disasters   June2019
- *Best Outgoing sportsman* from the College for clinching 25+ podium finishes in Athletics including a National Gold medal in Long Jump