PRAGNYA SRINIVASAN
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I code for a cause and make a difference

EDUCATION

Master of Science
University of Massachusetts Dartmouth.
Computer and Information Science - 3.87

Bachelor of Technology
Anna University
Information Technology - 3.2

SKILLS

Technology/Stack
(2+ Years)
Python (Object Oriented Python, Pandas, NumPy, PyQt, Django, Matplotlib / pyplot,mock/nose),MySQL / Postgres,

(~1 Years)
JAVA ,HTML/CSS, Mathematica, JIRA, Bash / Shell Script , AWS.

(<1 Years)
Javascript,R, Selenium, Apache Kafka, Apache Storm, PipelineDB (with Docker), NodeJS (Node Webkit), Snowflake , Jupyter

Tools:

Enthought Canopy, IPython(Anaconda), Wing IDE, PyCharm,QT Designer, MIT AppInventor, T4 (Content Management), Git, Gitlab, SVN, Mathematica, R Studio, IBM Watson Analytics.

OS:

Linux (Ubuntu), Mac, Windows

PROJECT and WORK EXPERIENCE

Developer I – Verisk Analytics (October 2016 – Present)
Backend Developer using Python(unit-test using nose/mock, psycopg2) and Greenplum PostgreSQL (plpgsql), and bash scripting. Involved in Project Planning and software / database design and some miscellaneous activities like **Octopus Deploy(**Automated Deployment for .NET**)**.
Current focus on Snowflake and Jupyter Notebook / Hub with Kernel Gateway/Papermill and AWS Services (EC2 / S3 / H2O / python : boto)
Tools : JIRA, SVN/ Bitbucket , Bamboo / SONAR

Software Developer Intern - Mist Systems, CA (August 2016 – September 2016)
Developed and debugged Python scripts and **Django Rest API**- with technologies like **Kafka** and **Storm**, Unit Tests using Mock. Used PipelineDb through docker. **JIRA** used for Bug Tracking and **Git** (Version Control)

Teaching Assistant - UMass Dartmouth , MA (January - May 2016)
Taught concepts of Object Oriented Programming, basics of Java, problem solving and debugging using Eclipse**.**

Summer Research Assistant - UMass Dartmouth, MA (June - September 2015)
Crowdsourcing Game for ATP - Contributed to develop an application to solve ATP problems by crowdsourcing the problem as a game. My role/task : Manage **Django** with **PostgreSQL** (for backend), graph generation using **Python.**

Web-Scraping and Testing with Python (Selenium) Link
Self-taught testing with Selenium (Python) and unittest using Guru99 exercise - involves exercises for testing login page, validity etc.,

Analysis of College Data- UMass Dartmouth (Pandas)

Analysis of UMass Dartmouth student data, to predict the success rate of UMass Dartmouth, broken down school-wise, program-wise etc., Developed using Pandas(Python) and Matplotlib.

Analysis of Health Data- Deaths due to Diseases (Pandas) Link

Data Analysis of Health Data for state of New York, compared with other states. Project was developed using Pandas (Python) with other factors plotted using Matplotlib.

Desktop Application Using PyQt, Pandas and MySQL Link

An Internet-less Desktop Application developed using the **PyQt** framework for GUI, and **MySQL** for backend (database).

Software Reliability Model Derivation and Testing (R , Mathematica)

Derivation of Failure-Time Truncated Maximum, model coded in Mathematica using ECM Algorithm, based on a given dataset of failure time/failure counts. Extended to test with Bisection Rule and Genetic Algorithm

Museum System design

A Design Model for a Museum-System and its interaction using Rational Rose. Includes use-case, state-transition and activity models, identifying the Design Pattern in the System.