Kasturi Shirish Vartak

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EDUCATION

State University of New York, Binghamton

Master of Science in Computer Science **Expected May 2021**

Courses: Algorithms, Software Engineering, Cloud, Web, Data Science, Data Mining, Architecture, OS

PVG's College of Science, Savitribai Phule Pune University

MSc in Computer Science **May 2017**

BSc in Computer Science **May 2015**

TECHNICAL SKILLS

Languages: Python, Java

Web Technologies: JavaScript, jQuery, NodeJS, React, Express, Flask, HTML5/CSS3, DOM

Database, OS & Tools: SQL, MongoDB, JSON, PostgreSQL, Hadoop, HDFS, Spark, Docker, Kubernetes, GCP, Git, Linux

Applications: SalesForce.com (Service Cloud), Oracle Service Cloud

Additional: Numpy, Pandas, matplotlib, bokeh, folium, Stata

EXPERIENCE

Economics Research Lab, Research Assistant | Binghamton University **August 2020 - Present**

- Develop an algorithm to map kldb92 to kldb2010 of Socio-Economic Panel (SOEP) data to analyze the labor market effects of Syrian refugees in Germany

Global Health Impact, Web Developer | Binghamton University **June 2020 - September 2020**

- Built a forecasting tool to measure pharmaceutical product's impact to advance access for medicines using Python, Flask, SQLite, React and JavaScript
- Developed scripts to automate data collection/analysis process for Global Health Impact Index

Veritas Software Technologies, Associate IT Developer | Pune, India **July 2017 - April 2019**

- Worked as a cross functional SME (Subject Matter Expert) to resolve and communicate issues with third-party, developed backend APIs and scripts for integration
- Reduced workspace rules from 30 to 12 and case loading time by 30% using query, workspace and workflow optimization
- Provided temporary workaround and permanent code fixes during Hyper-care Post Go-Live
- Received 3 Veritas applause awards for exceptional perseverance

Veritas Software Technologies, Intern at Masters Level | Pune, India **January 2017 - June 2017**

- Designed and Developed Landing page and Case management module using integration with Salesforce API, Enterprise WSDL, Connect Web Services
- Built Historical Case View portal for Veritas agents using integration with Veritas DataHub to get incident information

PROJECTS, Binghamton University

Twitter chaos effect on Billboard | *Python, PostgreSQL* **October 2020 - Present**

- Build a web scraper for Billboard's featured charts and tweets using Twitter streaming API
- Perform sentiment analysis and prediction algorithms to analyze how twitter affects popularity on Billboard charts

Book Shop System | *Node.js, JavaScript, Microservices, Express, React, MongoDB, REST* **June 2020 - August 2020**

- Implemented a full-stack web-based application for maintaining a book cart
- Utilized dynamic pagination to provide book search and list all books

Philadelphia Crime Data Analysis and Visualization | *Python, folium, pandas, Jupyter notebook* **June 2020**

- Performed data manipulation tasks such as data cleaning with Pandas, Numpy
- Created interactive visualization map of crimes in Philadelphia with crime category, address

Live Video Streaming and Chat Web Application | *Node.js, GCP, Docker, Kubernetes, YAML* **February 2020 - April 2020**

- Built a containerized web application to engage multiple users at once and to improve audience interaction
- Implemented Horizontal Pod Autoscaler to scale number of replicas based on CPU utilization on GKE

Microprocessor Pipeline Simulator | *C* **August 2019 - December 2019**

- An Out-of-order APEX pipeline simulator to demonstrate cycle-by-cycle execution of sequence of assembly instructions
- Implemented multiple FUs, ROB to support Load-Store, Branching instructions and data forwarding