

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, Node.js, 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
- Converted, cleaned, analyzed, organized and documented large data files (10,000 to 2 million records)

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 React, Node.js
- 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 category, address, zip code

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