BHARGAV VASUDEVA VUNNAM

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Portfolio: https://bhargavvasudevavunnam.github.io/Portfolio/ | GitHub: https://github.com/BhargavVasudevaVunnam

EDUCATION:

Master of Science, Computer Science   Jan 2021 - Dec 2022
Wichita State University, Kansas, USA.   GPA: (3.81/4.0)

Bachelor of Engineering, Computer Science Engineering   Jan 2015 - July 2019
SJB Institute of Technology, Bengaluru, India.   CGPA: (7.0/10.0)

TECHNICAL SKILLS:

Languages: Java, Python, Shell Script, HTML, Oracle SQL, MySQL, PHP, JavaScript, C++, Linux.
Concepts: Data Structures, Web Scraping, Machine Learning, Image Analysis, Artificial Intelligence, Neural Networks.
Operating System: Windows, Linux, iOS.
Frameworks: Kera's, Git, CSS5, Kafka, Spring Gateway, Maven, Spring Rest API, Selenium, Spring Boot, Bootstrap, React JS.

PROFESSIONAL EXPERIENCE:

Software Engineer, Origin Hubs, North Carolina, United States   Dec 2022 – Present
- Developed Single Page Applications (SPA) using React hooks like useState, useEffect, and useMemo, optimizing website performance with animations and caching techniques.
- Integrated REST endpoints into React using Axios, including error handling mechanisms.
- Designed responsive front-end layouts using grid layouts and flexboxes.
- Created web animations with parallax effects, 3D-Transforms, and Transitions.
- Developed microservices for business modules with a focus on data structures and added logging, documentation, error handling, and JWT-based authentication.
- Conducted testing of microservices using Postman and Selenium.

Assistant System Engineer, Tata Consultancy Services, Bangalore, India   Jul 2019 – Jan 2021
- Developed microservices, utilizing Spring Cloud Gateway and Eureka Service Registry for load balancing, URL resolution and security features, resulting in significantly increased productivity.
- Added documentation features to the existing application by incorporating Thyme leaf dynamic Rest templates and configuring Swagger UI for the Rest Controller, effectively reducing documentation load for peers.
- Automated web testing using Selenium and Junit, resulting in a 70% reduction in manual testing efforts.
- Automated DDL and DML statements development, using Shell Script and Java, reducing sprint target achieving time by 40%

Software Intern, Datalore Labs, Bangalore, India   Apr 2019 – May 2019
- Conducted web scraping on IMDB website using Python's Beautiful Soup library to extract data for movie scores, resulting in a 20% boost in client business growth due to enriched insights from scraped User Reviews.
- Utilized HTML, CSS5, Bootstrap. JavaScript, and React Hooks to present API data for improved UI/UX experience.

PROJECTS:

Gender Classification using LBP   May 2022 – Jul 2022
- Developed a machine learning model for image-based gender classification, resulting in the integration of gender detection features into a website and a 67% increase in daily user visits (from 600/day to 1000/day).
- Conducted image preprocessing tasks including denoising, data augmentation, and resizing. Extracted image feature using Local Binary Pattern with a window size of (8,1)
- Extracted features using Local Binary Pattern (LBP) and trained them with SVM, achieving 96% accuracy.

3D Maxima   Nov 2021 – Dec 2021
- Developed an approach to solve the 3-D maxima problem 20% faster, benefiting CAD students.
- Identified maximal points in 3-D models by sorting points based on the Z-axis and calculating 2-D maxima for the X-Y axis.

Boom Box   Sep 2023 - Sep 2023
- Designed a website with a primary focus on synchronizing text effects seamlessly with music, providing engaging and dynamic user experience.
- Conducted Fourier transforms on time domain signals to generate frequency domain representations. Averaged signals within specific bass frequency ranges to identify bass sounds, then applied thresholding to control the movement based on audio cues.