SPOORTHI BASU

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TECHNICAL SKILLS

- Programming Languages: Java, Python
- Web Technologies & Frameworks: Spring MVC, Spring Boot, Hibernate, Java EE, HTML5, CSS3.0, PHP
- Cloud Computing Services: AWS
- Scripts/UI: JavaScript, Bootstrap
- Database: Oracle, MySQL
- Versioning and other Tools: JDBC, JSP, XML
- Deployment Tools: Git, Maven, Docker, CASCADE

EXPERIENCE

Software Engineer, Academic Programs, Cal Poly Pomona, https://www.cpp.edu/~assessment/index.shtml June 2019 – Present

- Designed and developed from scratch, a cross-browser compliant Academic Programs website, employing mastery of front-end and back-end languages, Java, JavaScript, CSS, HTML and Bootstrap 3 front-end framework
- Applied version control software (Git) to track and test source code
- Created mockups for potential sites with Adobe Illustrator

Software Engineer, Office of Graduate Studies, Cal Poly Pomona, https://www.cpp.edu/~gradstudies/ February 2019 – May 2019

- Contributed to design and development of Cal Poly Pomona Graduate website
- Maintained and updated HTML/CSS templates on a regular basis and as required
- Used Java and Bootstrap 3 front-end framework along with both Cascade and WordPress as a CMS

EDUCATION

California State Polytechnic University, Pomona May 2020
Master of Science in Computer Science, **GPA: 3.67**

Dr. Ambedkar Institute of Technology, India June 2018
Bachelor of Engineering in Computer Science and Engineering, **GPA: 4.0**

PROJECTS

Automated Clinical System for General Check-ups web application Fall 2019
http://ec2-3-21-231-10.us-east-2.compute.amazonaws.com:8080/ClinicalHealthCareSys

- Conceptualized, designed, developed and deployed a website on AWS for a clinic, which enabled the patients to view doctors near-by based on their pin code and take appointments, developed using JavaScript, HTML, CSS, JSP for the front end and Java for the back end.
- Established connection to MySQL through JDBC, which was used to store the doctor and patient records

Image Processing App Spring 2019
https://github.com/spoorthibasu/Image-Processing-App

- Developed a Java application for image processing using various techniques.
- Implemented various functionalities for performing, Histogram equalization, zoom-in, zoom-out, Spatial Filtering Restoration, Spatial Filtering Smoothing and Image Compression.
- Image compression techniques include RLE, Huffman encoding and decoding, LZW encoding and decoding

Safe Driving to Avoid Rear End Collision Fall 2017 - Spring 2018

- Designed and developed the demo vehicle using Renesas Microcontroller, installed it with front and back ultrasonic obstacle sensors which sent a message to the front and back vehicle if they came in very close proximity to the demo vehicle
- Implemented the message sending through CubeSuite ++ and Renesas Flash Programmer for writing the program onto the Renesas Microcontroller
- Utilized mobiles, as vehicles following the demo vehicle with AWS storing a copy of messages sent to them

PROFESSIONAL ACTIVITIES

Presenter at Keys to Success: Perspectives from Faculty and Graduate Students August 2019

- Gave a talk to over 60 students regarding my experience at Cal Poly Pomona
- Addressed students regarding the transition to graduate school