SPOORTHI BASU

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Portfolio: https://spoorthibasu.github.io

TECHNICAL SKILLS

- **Languages**: Java | C++ | SQL
- **Databases**: MySQL
- **Web**: HTML5 | CSS3 | JavaScript | React JS | Node.js | Express JS | JSP Servlets
- **Frameworks and Data Engineering Tools**: AWS | React JS | Node.js | Git | Docker
- **Others**: REST API | Object Oriented Design | Design Patterns | Service Oriented Architecture | Multithreading | Microservices | Test Driven Development

EXPERIENCE

Software Engineer, Coding Minds, Inc. July 2020 - Present

- Working on a Full-Stack web project named sharemyworks, a tool to teach and practice coding online
- Utilized **Express JS, LoopBack JS** web-framework with **Node.js**
- Queried data from Loopback models with **API, Axios,** and **filters**
- Displayed data at front-end using **HTML, CSS, JS, ReactJS**
- Hosted code repo in GitHub and deployed using Heroku

Software Engineer, Office of Graduate Studies, Cal Poly Pomona, https://www.cpp.edu/~gradstudies February 2019 – May 2020

- Contributed to design and development of Cal Poly Pomona Graduate website accessed **using Java, PHP, JavaScript, and CSS**, resulting in ~50% increase in website views
- Created mockups for potential sites with Adobe Illustrator

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

- Designed and developed from scratch, a cross-browser compliant Academic Programs website, employing mastery of **Java, JavaScript, PHP, CSS, HTML and Bootstrap 3** framework
- Applied version control software (**Git**) to track and test source code

EDUCATION

California State Polytechnic University, Pomona
May 2020
Master of Science in Computer Science, **GPA: 3.66**

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 **Java** for the back end and **JavaScript, PHP, HTML, CSS, JSP** for the front 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