

## SPOORTHY BASU

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GitHub: <https://github.com/spoorthibas>

Portfolio: <https://spoorthibas.github.io>

San Jose, California 95134

### 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 **ExpressJS**, **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

February 2019 – May 2020

<https://www.cpp.edu/~gradstudies/>

- 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

June 2019 – August 2019

<https://www.cpp.edu/~assessment/index.shtml>

- 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, CA, USA**

August 2018 - May 2020

Master of Science in Computer Science, **GPA: 3.66**

**Dr. Ambedkar Institute of Technology, India**

August 2014 - 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 – Spring 2020

<https://github.com/spoorthibas/Automated-Clinical-System-for-General-Check-ups>

- 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/spoorthibas/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