

# Spoorthi Basu

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## EDUCATION

**Master's in Computer Science**, California State Polytechnic University Pomona (GPA: 3.66) May 2020

- Graduate Student Assistant (Office of Graduate Studies)

**Bachelor's in Computer Science**, Dr. Ambedkar Institute of Technology, India (GPA: 4.0) May 2018

## PROFESSIONAL EXPERIENCE

**Software Engineer**, Coding Minds, Inc., July 2020 – Present | [www.sharemyworks.com](https://www.sharemyworks.com)

- Design and develop the academic management system using web service technologies
- Perform Requirement analysis, Designing, Development and Deployment using agile development methodology
- Experience in developing RESTful services using Spring Boot, Spring JPA, MVC design pattern and perform CRUD
- Perform testing using dev tools, SWAGGER and perform operations on full-stack web services with MySQL
- Utilize React for frontend and Spring Boot for backend development and deploying the application with Heroku

**Software Engineer**, California State Polytechnic University Pomona, Feb 2019 – May 2020 | [www.cpp.edu](https://www.cpp.edu)

- Designed and developed University website by adding new features using Java, JavaScript, CSS, HTML, React, MySQL, AWS, GIT resulting in 50% increase in website views
- Created and deployed a module for efficient onboarding of graduate students with features such as registration, authentication, onboarding, curriculum development, and self-service tools
- Executed database management using MySQL, version control with GIT, and deployed on AWS
- Performed regular testing, deployment, and bug fix in an agile development environment by actively gathering feedback and continuously improving the features to satisfy customer needs

## TECHNICAL SKILLS

- **Languages and Technologies:** Java, C++, MySQL, JavaScript, AWS, GitHub, Docker, Linux
- **Web and Front-end:** React, HTML5, CSS, JQuery, Bootstrap, REST, AJAX
- **Functional:** Data Structures and Algorithms, Object-Oriented Methodologies, Spring boot, MVC, TDD, CI/CD, Agile Development, Relational Databases, SDLC, Excellent Communication skills, SCRUM, NoSQL, Kubernetes
- **Certifications:** Core Java (NIIT, India)

## TECHNICAL PROJECTS

**E-commerce Order Processing** | [Link](#)

- Developed order microservices using Spring Boot, Spring JPA, Spring IOC, MVC design pattern to deal with single and bulk orders from the users and designed new schema with MySQL
- Used Swagger to document endpoints, along with using appropriate HTTP and status codes and containerized the services using Docker and utilized Log4j for logging and tracing java code

**Automated Clinical System for General Check-ups web application** | [Link](#)

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

**Machine Learning – Hair and Skin Segmentation analysis (Kaggle Competition)** / [Link](#)

- Created a linear regression model to determine accuracy of the Boston dataset using algorithms such as Gradient Descent, Stochastic Gradient Descent with an accuracy of 83% using Google Colab
- Developed deep autoencoder using U-NET model for hair and skin segmentation using Keras, tested it on Celeb-A dataset using Python, Keras, Numpy, scikit-learn

**Digital Image Processing Application** | [Link](#)

- Created an image processing application with functionalities for different features such as magnify, sharpen, blur, dissolve, resolution change, invert effects, similar to a photoshop application
- Used Java Swing for developing the frontend and Core Java for the backend with GIT for version control