

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 Engineering, Visvesvaraya Technological University (VTU), India (GPA: 4.0) May 2018

PROFESSIONAL EXPERIENCE

Software Engineer, Coding Minds, Inc., July 2020 – Present | 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
- Perform testing using dev tools, POSTMAN and perform operations on full-stack web services with MySQL
- Experience in developing RESTful services using Spring Boot, Spring JPA and perform CRUD
- 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

- 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