Sanket Patil

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WORK EXPERIENCE

15/06/2023 – 15/12/2023 Lichtenau, Baden-Württemberg, Germany
SOFTWARE DEVELOPER (MASTER THESIS) LS TELCOM AG

- Designed and developed a customer-specific Aircraft Spectrum Management Application using Java, Groovy, and Grails to manage aeronautical radio equipment licenses.
- Integrated new Spring Boot based RESTful APIs to meet the new requirements of a cloud-native microservices architecture.
- Enhanced a data model by adding detailed specifications and worked with relational databases (PostgreSQL, Oracle) as well as NoSQL databases (Arango DB).
- Implemented frontend configuration using Java and JSON within the mySPECTRA environment to enable easy field configuration for customers through the UI.
- Developed user interfaces and Conducted system testing to ensure seamless operation and functionality.

15/03/2023 – 14/06/2023 Lichtenau, Baden-Württemberg, Germany
SOFTWARE DEVELOPER (INTERNSHIP) LS TELCOM AG

- Identified and resolved various bugs in the Spectrum Management Application using Java, JavaScript and Vue.js, leading to significant improvements in user experience.
- Designed, implemented, tested and automated data migration (ETL) process to facilitate easy data migration for customers using Java, Apache Hop and SQL.
- Automated the data migration process for a dataset of 50,000 records across various services, including migration from legacy systems to cloud environments.
- Extracted data from PostgreSQL and Oracle databases using SQL queries.
- Collaborated in Agile Scrum meetings utilizing Jira for task tracking, Confluence for documentation, Docker, Swagger and Bitbucket for development and testing.

EDUCATION AND TRAINING

01/09/2021 – 04/01/2024 Offenburg, Germany
M.SC. COMMUNICATION AND MEDIA ENGINEERING Offenburg University of Applied Sciences

Object-Oriented Software Development (Java), Object-Oriented Modeling (UML), Database Systems (SQL), Interactive Distributed Applications (HTML, CSS, JavaScript, PHP, XML), Multimedia Databases (Deep learning), Next Generation Internet, Interactive Media (UI), Ubiquitous Applications (Android), Media Integration, Anonymity and Surveillance (Security, Privacy on the Internet)

Field of study Computer Science and Web Development | **Final grade** 1.9

01/08/2016 – 30/10/2020 Mumbai, India
B.E. ELECTRONICS ENGINEERING (UNIVERSITY OF MUMBAI), Shah And Anchor Kutchhi Engineering College

Object-Oriented Programming Methodology (C++), Structured Programming Approach (C), Database and Management System, Computer Network, Advance Networking Technology, Computer Organization and Architecture

Field of study Hardware and Software Development

PROJECTS

10/2022 – 01/2023
Docker and CI/CD based web application with a friendly and intuitive user interface (Master Project)

- Grade: 1,0
- Developed a web-based Coffee Shop application to enhance customer purchasing experience and improve shop operational efficiency.
- Built the frontend using React and Redux for seamless user interaction, with a responsive UI designed in Tailwind CSS.
- Contributed to backend development with Django REST API (Python) and SQLite database.
- Implemented DevOps practices, including containerization of the React app with Docker and using Docker Hub for image storage and version control.
- Engineered continuous integration / continuous deployment pipelines in GitHub Actions for Docker image creation and deployment to Docker Hub.

- Utilized Watchtower for automated continuous deployment and configured Nginx for load balancing across containers.
- [GitHub](#)

15/05/2024 – CURRENT
Food Waste Reduction Platform

- Nearly 8% of food waste contributes to the greenhouse effect. This application aims to create a platform for donating surplus food from retailers, consumers and supermarkets.
- Developed RESTful backend service using Java, Spring Boot, and PostgreSQL and utilized JUnit for unit testing as part of full stack development.
- Designed and implemented frontend using React and CSS for a user-friendly experience.
- Built CI/CD pipelines in Jenkins for Docker image creation and deployment to Docker Hub.
- [GitHub](#)

08/2019 – 04/2020
Smart Farming Using IOT (Bachelor's Project)

- This project help farmers automate daily tasks such as detecting soil moisture, turning on pumps based on water levels and sending alerts if animals enter the field.
- Developed a web interface using HTML5, CSS3, JavaScript, Bootstrap and PHP to help farmers easily track information.
- Implemented real-time data recording and transmission with the ESP8266 Wi-Fi module to display data on the web interface.

01/2023 – 02/2023
E-commerce RESTful service

- Developed and tested REST services using Node.js and Express.js for server-side functionality with focus on security and flexibility.
- Designed and implemented database using NoSQL technology MongoDB.
- [GitHub](#)

SKILLS

Technical Skills

- **Programming**: JavaScript, Java, SQL, Bash
- **Web**: HTML, CSS
- **Framework and Libraries**: React, Node.js, Spring Boot, Bootstrap, Tailwind CSS
- **Database:** SQL (PostgreSQL, Oracle), NoSQL (MongoDB, Arango DB)
- **DevOps:** Docker, CI/CD, Jenkins
- **Others**: Jira, Confluence, GitHub, Git, UML, RESTful APIs, Agile (SCRUM), JUnit, IntelliJ IDEA, Bitbucket

Languages

- English - B2
- German - A2
- Marathi - Mother Tongue
- Hindi - Fluent

CERTIFICATES

08/2021 – 11/2022
Fullstack Web Development Bootcamp

[certificate](#)

03/2023
Responsive Web Design

[Certificate](#)