

SRINIVASAN POONKUNDRAN

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PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions, India

Sept'21 – Jan'24

Programmer Analyst

- Optimized application performance by implementing caching strategies and improving query efficiency, resulting in a 25% reduction in load times.
- Revamped the user interface design, leading to a 15% increase in user engagement and a significant reduction in bounce rates.
- Designed and implemented a new feature that increased customer satisfaction by 20%, as measured by user feedback and engagement metrics.
- Created a cost-effective PDF label validator using Python that helped save \$1600 worth of yearly labor.
- Developed responsive and user-friendly web interfaces using Angular, HTML, CSS, and TypeScript, enhancing the overall user experience.
- Utilized Java and Spring Boot for backend development, creating and maintaining microservices, with AWS optimization for backend processes.
- Designed and executed complex SQL queries, managed databases to ensure data integrity, and supported application functionalities and reporting needs.
- Actively participated in Agile team meetings and project discussions, collaborating with cross-functional teams to gather requirements, address issues, and develop robust solutions
- Continuously updated technical knowledge and skills, staying current with advancements in software development, exemplifying a growth mindset.

EDUCATION

University of Arizona

Masters in Science, Data Science

Jan'24 – Dec'25

4 GPA

A.I.S.S.M.S. College of Engineering, Savitribai Phule Pune University, Pune

Bachelor of Engineering, Computer

Aug'17 – May'21

3.39 GPA

PROJECTS

Blood Oxygen Monitoring System

Oct '24 – Dec '24

- Designed and implemented a low-cost IoT-enabled web application to monitor heart rate and blood oxygen levels.
- Developed the server using Node.js, Express, and MongoDB, implementing RESTful APIs for secure data transmission and device management.
- Built a responsive front-end application using React to visualize data with real-time charts for daily and weekly summaries.
- Integrated MAX30102 heart rate and oxygen sensor with IoT device using Photon development board; implemented synchronous state machines for data collection and transmission.
- Enabled configurable measurement intervals and times, allowing users to define when and how often data should be captured.
- Ensured offline data storage for the IoT device and automatic synchronization once Wi-Fi connection was re-established.

Cricket Metrics

Mar'24 – Apr'24

- Developed a dynamic cricket analytics dashboard to visualize match statistics and player performances using extensive historical datasets (150,000+ rows).
- Simulated live matches by creating backend APIs integrated with a front-end Quarto interface, enabling automatic updates and real-time data rendering.
- Designed and implemented data visualizations, including line charts, bar charts, donut charts, and map plots, to provide insights into player performance, scoring trends, partnerships, and bowling economy rates.
- Built APIs for key match dynamics such as Batting Performance, Bowling Performance, and Partnerships, ensuring seamless live updates and in-depth analysis for end users.

TECHNICAL SKILLS

Programming: Java, C++, C, Python, JavaScript, TypeScript, R

Web Technologies: Angular, Spring Boot, Spring MVC, Maven, RESTful Services, HTML, CSS

Testing: JUnit, Mockito

Development Practices: Object Oriented Programming, Microservice Architecture, Data Structures

Database: RDBMS, NoSQL, MySQL, SQLite, MongoDB

Cloud: AWS

Tools: IntelliJ, Eclipse, VS Code, PyCharm, R-Studio, Jupyter Notebook, Git, GitHub

CERTIFICATIONS

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|--|------|
| • Amazon Web Services Certified Cloud Practitioner | 2023 |
| • Agile Crash Course: Agile Project Management; Agile Delivery (Udemy) | 2022 |
| • Machine Learning using AWS – Project Division | 2021 |