SUSHANT LANGHI

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www.linkedin.com/in/sushantlanghi www.github.com/sushanttx

SKILLS

- Programming Languages: Java, Python, JavaScript.
- Frameworks and libraries: Spring Boot, ReactJS, Next.js.
- Databases: MySQL/SQL, PostgreSQL.
- Version Control, Cloud Platforms and Containerization: Git/GitHub, AWS, Docker.
- Operating Systems: Linux, Windows.

EDUCATION

- Computer Engineering | PICT, Pune**.** *CGPA***:** *7.71* | 2021 - Present
- XII (SSC) | Fergusson College, Pune. *80%* | 2019 – 21

ACADEMIC PROJECTS

- *Employee Dashboard - Full Stack Web Application.*
  - Developed a full-stack web database application with a **Spring Boot backend** and a **React.js frontend**, integrating **AWS S3 for file storage** and a **containerized PostgreSQL for database management**.
  - Leveraged **Docker for** getting a **containerized** application.
  - **Technologies**: Spring Boot 3, React.js, PostgreSQL, Amazon S3, Docker, Git/GitHub.

- *To-Do Management – Backend Web Application.*
  - Developed a **RESTful API** for a To-Do Management System using **Spring Boot**, implemented **Spring Data JPA** for persistent data transfer between database and application.
  - **Technologies:** Spring Boot 3, Spring Data JPA, MySQL, Git/GitHub.

- *Portfolio - Front End Web Application.* (www.sushantlanghi.online)
  - Built a **responsive portfolio with Next.js and Tailwind CSS**, using **client-side rendering** and deploying it using **Vercel,** configured with a custom domain via Hostinger for a professional online presence.
  - **Technologies**: Next.js, Tailwind CSS, HTML, CSS, Git/GitHub, Vercel.

RESEARCH PUBLICATIONS – (IN HOUSE)

- *Automating Helmet Usage Detection: A YOLOv8 Based Framework.* **DOI:10.22214/ijraset.2024.61533**

  Feb 2024 – April 2024
  - Implemented the **YOLO v8 model for real-time helmet detection** on Indian roads, leveraging a **CNN-based approach**.
  - Achieved a high mAP (mean average precision) value up to **80%**, particularly **for critical classes like number plate, rider, and helmet** showcasing robust object detection.

- *The Potentials and Security of Smart Contracts.*
  DOI: 10.13140/RG.2.2.28364.83840

  Sept 2023 – November 2023
  - Understood the capabilities and security implications of **smart contracts** within **open distributed networks** like cryptocurrencies.
  - Recreated the **Reaper Yield Farm** exploit, identifying its vulnerabilities and **proposing mitigation strategies** to enhance smart contract security.

RELATED COURSEWORK

- *Data structures and algorithms, DBMS, Operating Systems, Data Science, Machine Learning.*