SUSHANT GANPAT LANGHI

sushant.langhi05@gmail.com | (+91) 9022864373

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 Platform and Containerization: Git/GitHub, AWS, Docker.
Operating Systems: Linux, Windows.

EDUCATION

Bachelor's degree in computer science | PICT, Pune. CGPA: 7.71 | 2021 – 2025
XII Higher Secondary School | Fergusson College, Pune. 80% | 2019 – 2021

ACADEMIC PROJECTS

- Visual DB - A 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 2 **containerized**, configured applications – frontend and backend.
  - **Tech Stack**: Spring Boot 3, React.js, PostgreSQL, Amazon S3, Docker, Git/GitHub.

- Mail Server – A Full-Stack Email Management System.
  - Simulated a **custom email server** implementing **SMTP protocol** with a modern web interface, featuring real-time email delivery, inbox management, and email viewing capabilities.
  - Built a **RESTful API** and integrated a modern frontend using React.js and Tailwind CSS, delivering a responsive UI with <200ms average response time for API calls.
  - **Tech Stack:** Node.js, Express.js, React.js, SMTP Protocol, SQLite, Tailwind CSS, Git/GitHub.

- My Portfolio - Front End Web Application: Website
  - 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 and 100% mobile responsiveness across all iOS and Android devices.
  - **Tech Stack**: Next.js, Tailwind CSS, HTML, CSS, Git/GitHub, Vercel.

RESEARCH WORK EXPERIENCE – (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** for low quality images.
- The Potentials and Security of Smart Contracts.
  DOI: 10.13140/RG.2.2.28364.83840

  Sept 2023 – November 2023
  - I identified the root cause of the vulnerability - **unprotected procedural access** and proposed a 2-step mitigation strategy involving **access control and invocating-user check**.

RELATED COURSEWORK

Data structures and algorithms, DBMS, Operating Systems, Cloud Computing, Machine Learning.