

MANOJ PISINI

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SUMMARY

Versatile Full-Stack Engineer with 3+ years of experience specializing in Python (Django, Flask), Go, and React. Strong background in C, C++, and Rust for high-performance and systems-level development. Proven expertise in designing scalable microservices, implementing Docker/CI/CD pipelines, and integrating Machine Learning models into production. Demonstrated leadership by managing a team of 80+ developers at NIT Raipur's Robotics Club, delivering innovative solutions and workshops. Passionate about building efficient, maintainable, and high-performance software through agile development and continuous learning.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), C++, C, Rust, Go, Java, .NET, TypeScript

Frameworks and Libraries: React.js, Django, Flask, Express.js, Node.js, Next.js, Angular.js, Flutter, NativeScript

DevOps and Cloud: Git, Docker, Linux, AWS, GCP, CI/CD Pipelines, Shell Scripting

Databases: SQL, PostgreSQL, MongoDB

Concepts: RESTful APIs, Microservices, Machine Learning, Data Analysis, Agile/Scrum, TDD, OOP

PROFESSIONAL EXPERIENCE

Software & Systems Developer | Katalyst Business Partners Pvt. Ltd | Aug 2022

- Spearheaded development of security and monitoring applications using Python and Linux, collaborating in an Agile team to deliver robust, scalable solutions.
- Integrated front-end and back-end components (React.js, Django) to enhance product features and performance.
- Automated system testing and performance monitoring through shell scripting and CI/CD pipelines.
- Improved system reliability and reduced manual testing time by 30%.

Analytics Intern | Chhattisgarh State Co-operative Dairy Federation | Jan 2019 – Aug 2019

- Analyzed manufacturing operations and sales data to generate visual reports, supporting strategic management decisions.
- Optimized supply chain processes, achieving a 15% boost in operational efficiency and significant cost savings

PROJECTS

ICRABB 2020 Website | React.js, Django, MongoDB

Led the development of a fully responsive, dynamic conference platform using React.js, Django, and MongoDB, efficiently managing registration and resource access for attendees of NIT Raipur Biotechnology Conference 2020

Precise Positioning System | C, C++, Rust, Go, TypeScript, SQL, gRPC

Engineered a highly accurate Precise Positioning Network System for confined facilities, successfully integrating multiple robotics platforms via a robust API to facilitate precise and efficient coordination.

Terrain Feature AI | Python, TensorFlow, GIS Data

Engineered an Artificial Intelligence Model capable of predicting and simulating meteorological and geological changes, trained on extensive datasets encompassing global elevation, seismological, and meteorological information.

Price Estimation | Python, Scikit-learn

Designed and implemented an advanced pricing algorithm using Python and Machine Learning libraries (Scikit-learn), achieving high accuracy in predicting the selling price of used cars.

Infinite File Storage Solution | Python, Rust, ffmpeg, OpenCL

Created a performance-optimized Python codebase to drive a core Rust file storage engine, utilizing ffmpeg and OpenCL for efficient, encrypted file compression and conversion, achieving scalable file management.

EDUCATION

B.Tech in Biotechnology Engineering | NIT Raipur | Aug 2017 – May 2021

- CGPA: 9.36/10.00
- Relevant Coursework: DBMS, Data Analysis, Statistical Analysis, Bioinformatics

CERTIFICATIONS & PROFESSIONAL TRAINING

- IBM Full Stack Software Developer Professional Certificate – Coursera
- HarvardX Data Science Professional Certificate – edX
- Stanford University Machine Learning – Coursera (Andrew Ng)
- Meta Back-End Developer Professional Certificate – Coursera