MAHESH DHINGRA

SOFTWARE ENGINEER

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TECHNICAL SKILLS

Languages: Rust (API Development), Python
Backend: Axum, Actix-web, FastAPI, Django
Frontend & Mobile: React.js, Next.js, Kivy, Tauri
Databases & DevOps: PostgreSQL, MongoDB, Redis, Docker

PROFESSIONAL EXPERIENCE

Freelancing — Software Developer   **March 2020 - Present**
- Develops innovative software solutions that help businesses streamline their operations.
- Build applications that improve efficiency, scalability, and user experience.
- Assist companies in adopting modern technologies to stay competitive in the market.

PROJECTS

PyX – Custom Python Subset Interpreter   **Aug 2024 - Mar 2025**
Rust Compiler & Lexer: Converts Python source into tokens using a robust lexer, builds an AST, and translates it into a custom IR. Executes the IR with a modular VM, laying the groundwork for future JIT optimizations. Performance Focus: Includes built-in execution timing for rapid performance insights.

ADDITIONAL INFORMATION

- **Languages:** English, French, Hindi, Spanish, Germany.
- **Certifications:** Professional Design Engineer (PDE) License, Project Management Tech (PMT).
- **Awards/Activities:** Most Innovative Employer of the Year (2021), Overall Best Employee Division Two (2024), Onboarding Project Lead (2023)