

# MAHESH DHINGRA

## SOFTWARE ENGINEER

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### TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, Rust

Backend: FastAPI, Django, Axios, Actix-web, Axum, Tauri

Frontend: React.js, Next.js, Electron.js

Databases & DevOps: PostgreSQL, MongoDB, Redis, Docker, Prisma

### 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
- **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)